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R-218/66  
7 August 1967

This is the tenth group of items disseminated as part of NPIC/R-218/66, Southeast Asia Activity Report, POL Facilities, North Vietnam. Fourteen items are included in this portion of the report, 6 newly reported sites and 8 updated items. The updated items are as follows:

Bai Thuong Petroleum Products Storage UG Southeast, B11, B12, X-B11;  
Son Chau Petroleum Products Storage PUG, B31, B32, X-B31;  
Cu Van Petroleum Products Storage, B43, B44, X-B43;  
Dong Chau Petroleum Products Storage, B83, B84, X-B83;  
Quang Suoi Petroleum Products Storage, B101, B102, X-B101;  
Ba Don Petroleum Products Storage PUG West, B111, B112, X-B111;  
Tien Nong Petroleum Products Storage, B139, B140, X-B139; and  
Ha Gia Petroleum Products Storage NW, B165, B166, X-B165.

Each new or updated page carries the date of the covering memo directly under the NPIC report number. NPIC will continue to disseminate new and updated items on a continuing basis as photography becomes available.

Declass Review by NIMA/DOD

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DIA review(s) completed.

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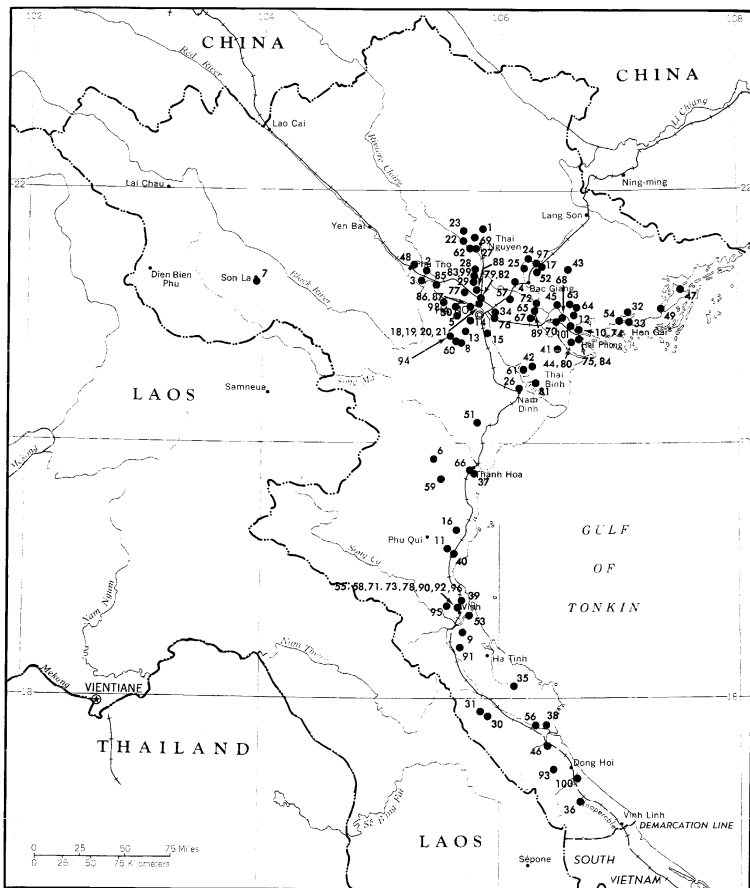
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**CONFIDENTIAL**R-218/66  
7 August 1967**KEY TO CATEGORY B  
DISPERSED STORAGE AREAS**

1. La Danh Petroleum Products Storage PUG
2. Van Lung Petroleum Products Storage UG
3. Van Lung Petroleum Products Storage West UG
4. Hoang Mai POL Storage Area
5. Ha Noi Petroleum Products Thi Cam
6. Bai Thuong Petroleum Products Storage UG Southeast
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26. Nam Dinh Petroleum Products Storage PUG
27. Thai Nguyen Petroleum Products Storage PUG South
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29. Phuc Yen Airfield POL Storage Area 2
30. Xom Duong Quan Petroleum Products Storage UG East
31. Xom Duong Quan Petroleum Products Storage UG
32. Nui Tap Binh POL Storage Area
33. Sac Le POL Storage Area
34. Phu Dong POL Storage Area
35. Thuan Le POL Storage Area
36. Phu Loc Petroleum Products Storage
37. Thanh Hoa POL Storage Area
38. Ba Don Petroleum Products Storage
39. Phuc Loi Petroleum Products Storage Navy
40. Tho Trang Petroleum Products Storage
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96. Vinh Petroleum Products Storage SE PUG
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99. Lap Tri Petroleum Products Storage
100. Long Dai Petroleum Products Storage
101. Luc Nong Petroleum Products Storage

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	WJ877956	2139N 10550E
	UTM COORDINATES	GEOGRAPHIC COORDINATES

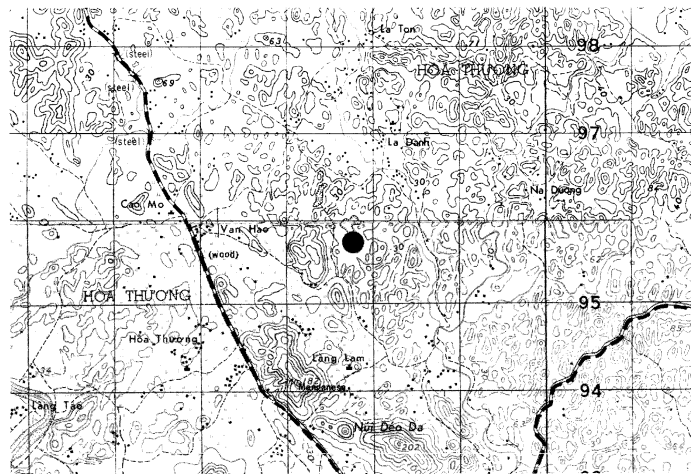
**NAME:** LA DANH PETROLEUM PRODUCTS STORAGE PUG

**LOCATION:** 4.1 NM NORTH OF THAI NGUYEN AND 0.8 NM EAST OF VAN HAO

**DESCRIPTION:** STORAGE AREA CONSISTS OF 2 ADJACENT SITES. EAST AREA CONTAINS APPROXIMATELY 116 BUNKERED TANKS, 6 UNBURIED MEDIUM TANKS, 15 EXCAVATIONS, AND APPROXIMATELY 4,000 DRUMS DISPERSED UNDER TREES. WEST AREA, 0.3 NM WEST, CONTAINS AT LEAST 475 DRUMS IN OPEN STORAGE AND IN 9 EXCAVATIONS AND 9 ADDITIONAL EXCAVATIONS. BOMB CRATERS ARE OBSERVED IN EACH AREA.

**ESTIMATED CAPACITY:** TANK 1,464 MT DRUM 895 MT

**MAP REFERENCES:** AMS SERIES L701, SHEET 6175-I, 1ST ED, OCT 63 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)



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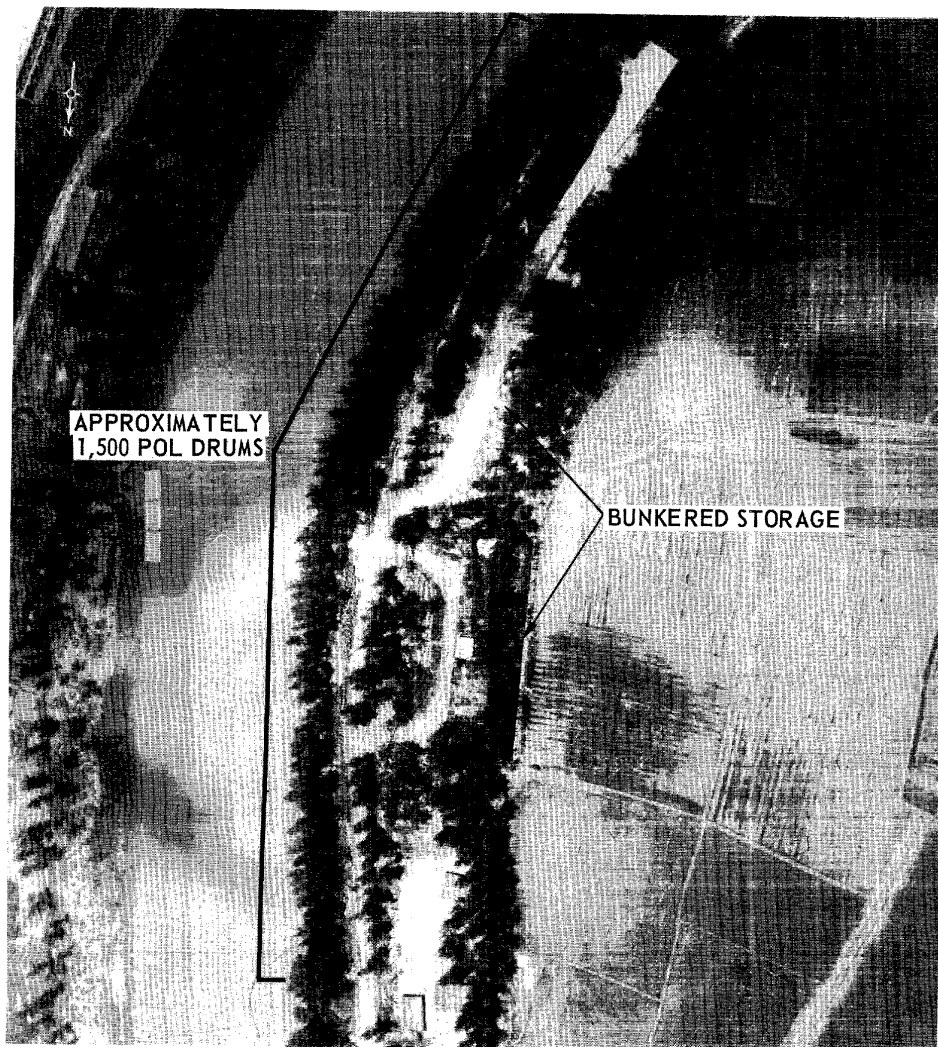


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HA NOI PETROLEUM PRODUCTS THI CAM

WJ791254  
UTM COORDINATES

2101N 10545E  
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WG436952  
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1951N 10525E  
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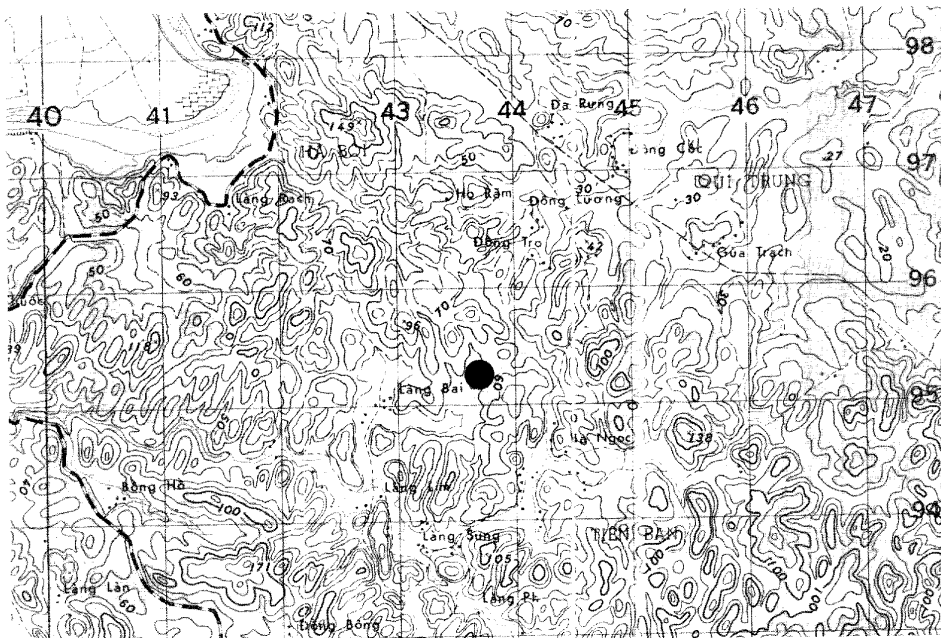
NAME: BAI THUONG PETROLEUM PRODUCTS STORAGE UG SOUTHEAST

LOCATION: 4.2 NM SW OF BAI THUONG AIRFIELD AND 3.2 NM SE OF BAI THUONG

**DESCRIPTION:** [REDACTED] REVEALS 110 BURIED AND 60 UNBURIED TANKS. PHOTOGRAPHY [REDACTED] REVEALS CONTINUING EFFORTS TO RECLAIM POL AND/OR TANKS. PHOTOGRAPHY OF [REDACTED] REVEALS 3 LARGE TANKS IN OPENED EXCAVATIONS, 20 STANDARD TANKS IN OPENED EXCAVATIONS OR ABOVE GROUND WITHIN STORAGE SITE, AND AT LEAST 20 STANDARD TANKS ABOVE GROUND ALONG ROADS WEST OF STORAGE AREA.

ESTIMATED CAPACITY: PRE-STRIKE TANK 2,040 MT  
POST-STRIKE TANK 555 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6048-I, 1ST ED, JAN 65 (U)  
AMS SERIES JOG(G) 1501, SHEET NE 48-3, 1ST ED, DEC 65 (U)



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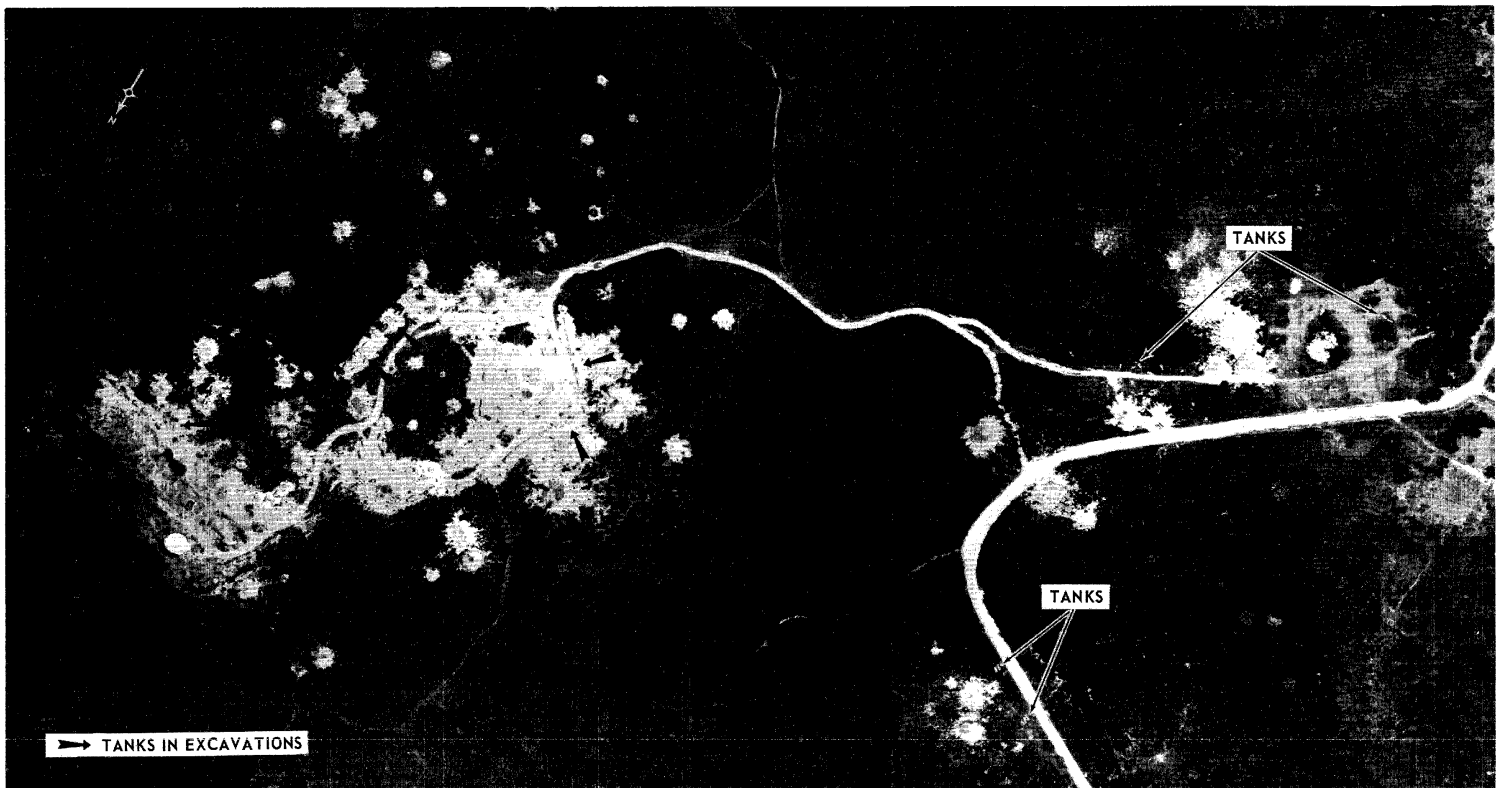
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BAI THUONG PETROLEUM PRODUCTS STORAGE UG SOUTHEAST  
WG436952 1951N 10525E  
UTM COORDINATES GEOGRAPHIC COORDINATES



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	UJ910549	2117N 10356E	25X1
BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES	

NAME: SON LA PETROLEUM PRODUCTS STORAGE

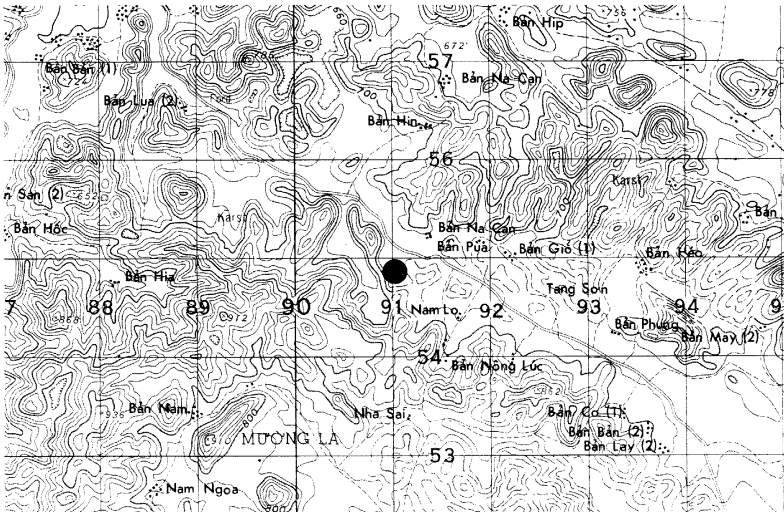
LOCATION: 2.8 NM SE OF SON LA AND IMMEDIATELY SOUTH OF ROUTE 6

DESCRIPTION: STORAGE SITE CONTAINS 32 BUNKERED POL TANKS. SITE IS FENCE SE-  
CURED AND ATTEMPTS HAVE BEEN MADE TO CAMOUFLAGE BUNKERS AND ACCESS ROADS.  
STRIKE ON FACILITY WAS EVIDENCED ON [REDACTED] BUT NO  
DAMAGE WAS APPARENT.

ESTIMATED CAPACITY: TANK 384 MT

MAP REFERENCES: AMS SERIES L701, SHEET 5774-I, 1ST ED, MAR 63 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-10, 1ST ED, JUN 65 (U)

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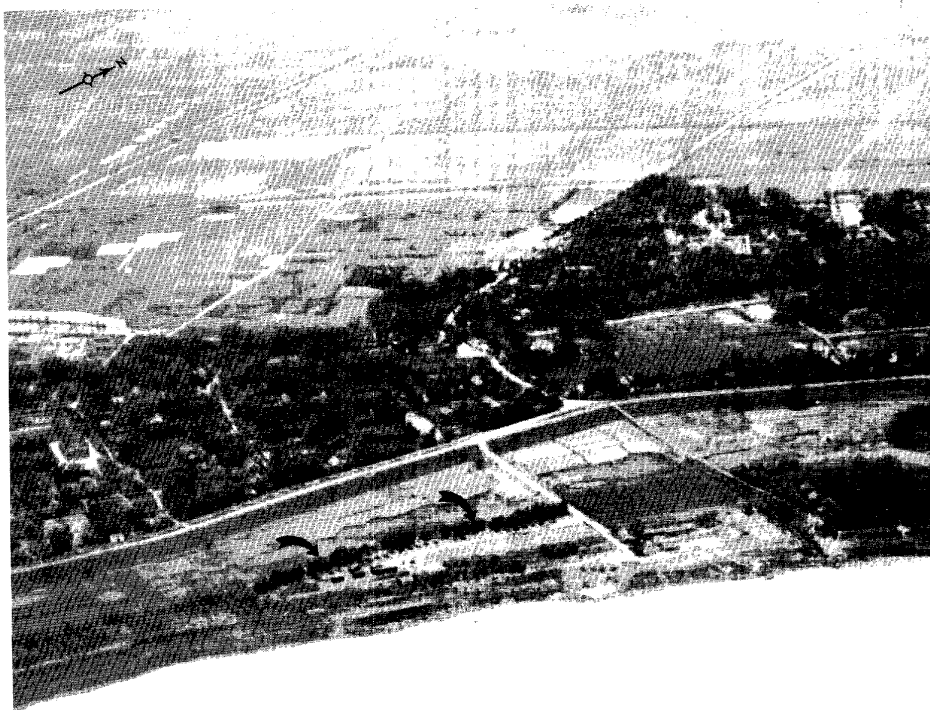
BANG SO PETROLEUM PRODUCTS STORAGE PUG

WJ932103

2053N 10553E

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BURIED POL TANKS

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WE761351  
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1918N 10543E  
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NAME: SON CHAU PETROLEUM PRODUCTS STORAGE PUG

LOCATION: 0.7 NM SOUTH OF SON CHAU AND IMMEDIATELY WEST OF ROUTE 1A AND THE THANH HOA/VINH RAIL LINE

DESCRIPTION: PHOTOGRAPHY OF [REDACTED] REVEALS 32 SMALL BURIED TANKS, 18 SMALL UNBURIED TANKS, AND APPROXIMATELY 600 DRUMS. PHOTOGRAPHY OF [REDACTED]

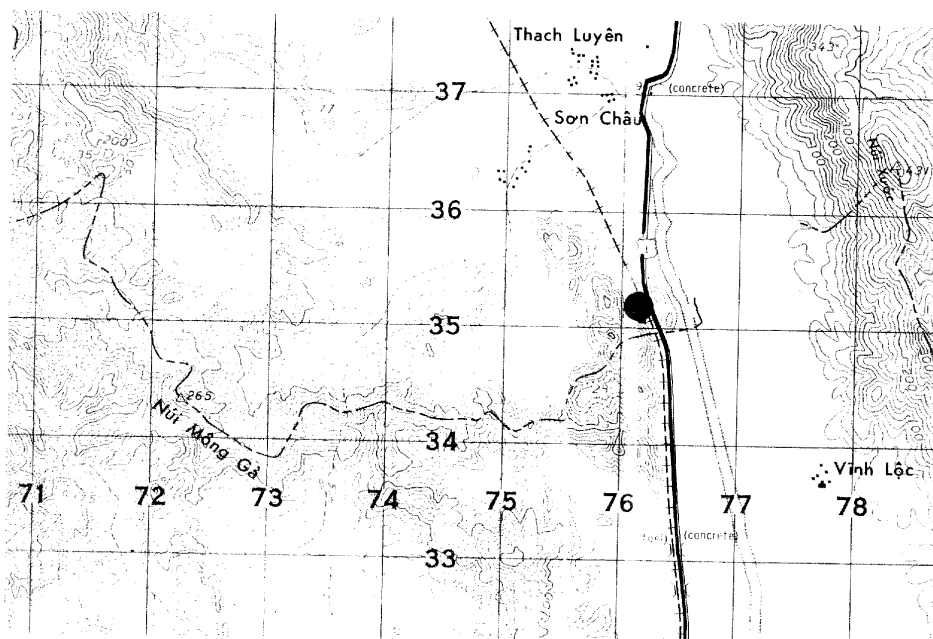
[REDACTED] REVEALS THE SITE IS EXTENSIVELY CRATERED AND ABANDONED. EIGHT PROBABLY DAMAGED STORAGE TANKS ARE OBSERVED ABOVE GROUND. NO BURIED TANKS ARE DISCERNIBLE.

ESTIMATED CAPACITY: PRE-STRIKE TANK 350 MT DRUM 120 MT

POST-STRIKE TANK AND DRUM NONE

MAP REFERENCES: AMS SERIES L701, SHEET 6163-IV, 1ST ED, AUG 63 (U)

AMS SERIES JOG(G) 1501, SHEET NE 48-3, 1ST ED, DEC 65 (U)



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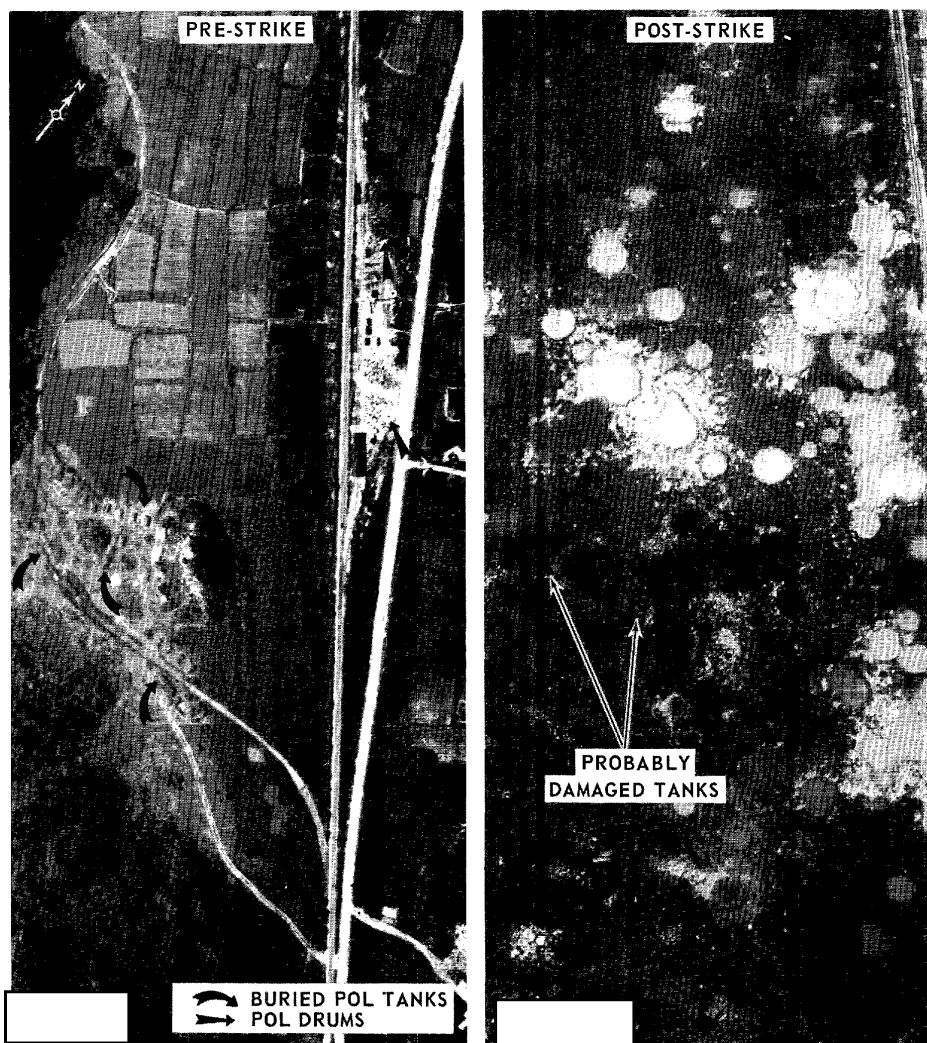
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SON CHAU PETROLEUM PRODUCTS STORAGE PUG  
WE761351 1918N 10543E  
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2123N 10618E  
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**NAME:** CAN THON PETROLEUM PRODUCTS STORAGE

**LOCATION:** 0.8 NM NORTH OF CAN THON, 2.2 NM EAST OF KEP AIRFIELD, ON NE SIDE OF ROUTE 181

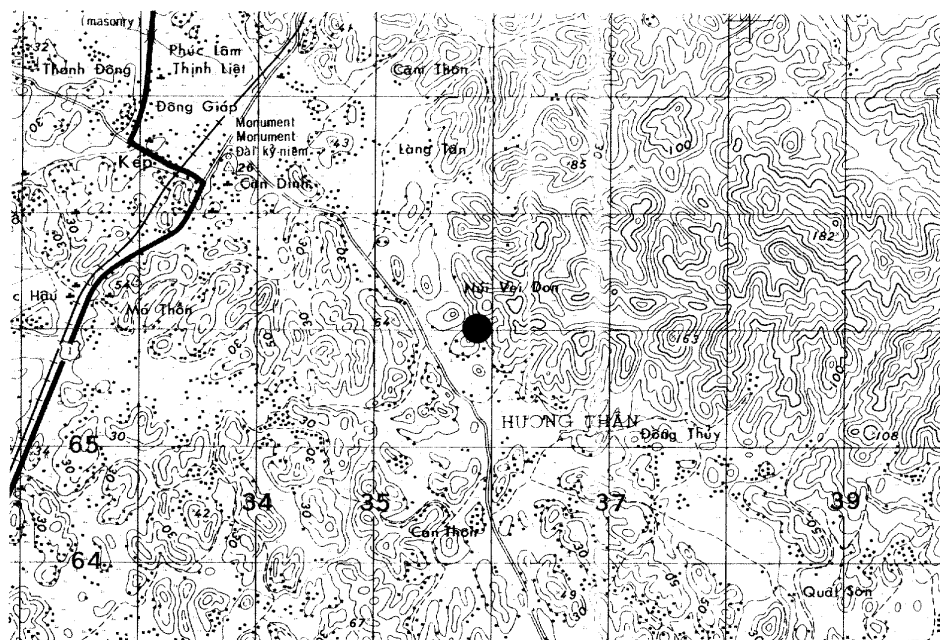
**DESCRIPTION:** FENCE-SECURED ROAD-SERVED AREA LOCATED AMONG 3 LOW HILLS CONTAINS 6 ROWS OF LARGE BUNKERED TANKS WITH A TOTAL OF 120 TANKS. TWO OF THE TANKS HAVE BEEN UNCOVERED [REDACTED] AT LEAST 500 DRUMS ARE OBSERVED IN NW PART OF AREA.

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**ESTIMATED CAPACITY:** TANK 3,000 MT DRUM 100 MT

**MAP REFERENCES:** AMS SERIES L7014, SHEET 6251 I, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

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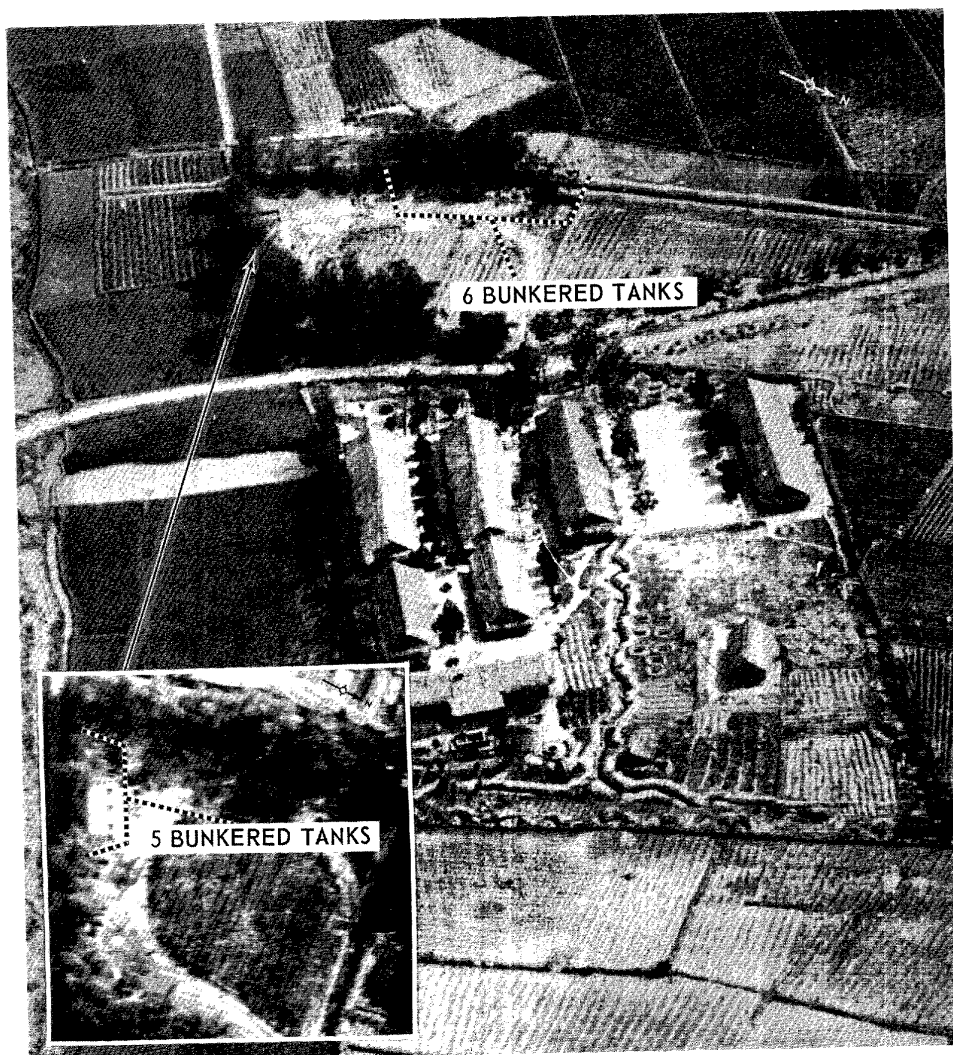
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HA NOI PETROLEUM PRODUCTS STORAGE DUC NOI (AREA 4)

WJ897357  
UTM COORDINATES

2107N 10551E  
GEOGRAPHIC COORDINATES



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BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES
	WJ754908	2137N 10543E

NAME: CU VAN PETROLEUM PRODUCTS STORAGE

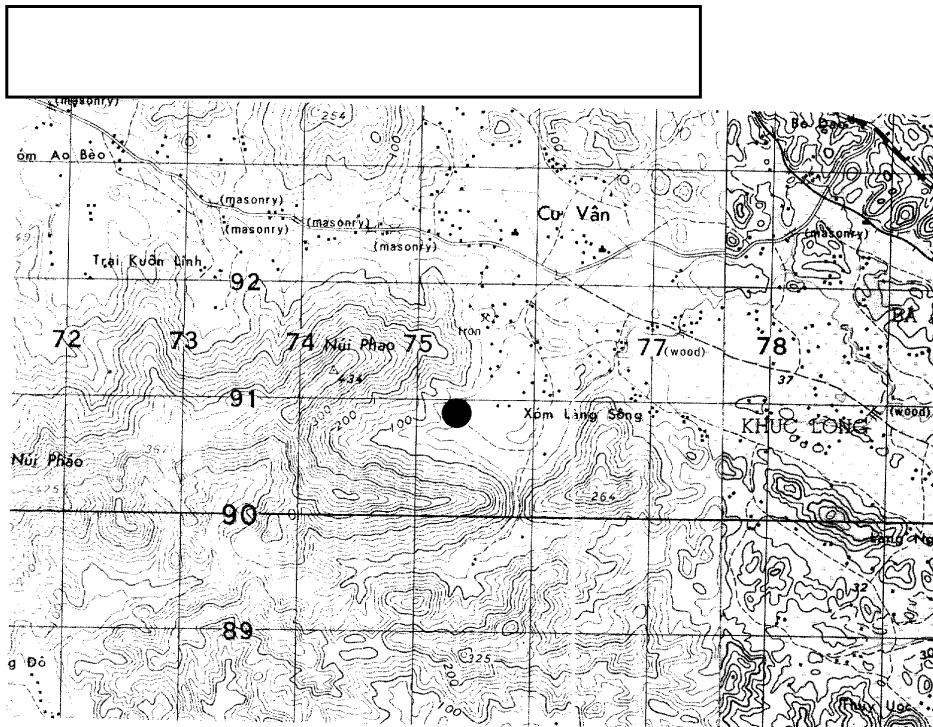
LOCATION: 1 NM SSW OF CU VAN AND 7.1 NM NW OF THAI NGUYEN

DESCRIPTION: PHOTOGRAPHY [REDACTED] REVEALS 94 LARGE BUNKERED TANKS  
ALONG LOOP ROAD. POST-STRIKE PHOTOGRAPHY [REDACTED] REVEALS CONTINUING  
EFFORTS TO REMOVE TANKS FROM SITE. [REDACTED] REVEALS  
20 UNCOVERED TANKS AND 14 PROBABLE BUNKERED TANKS.

ESTIMATED CAPACITY: PRE-STRIKE TANK 2350 MT

POST-STRIKE TANK 850 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6175-IV, 1ST ED, SEP 63 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JAN 65 (U)



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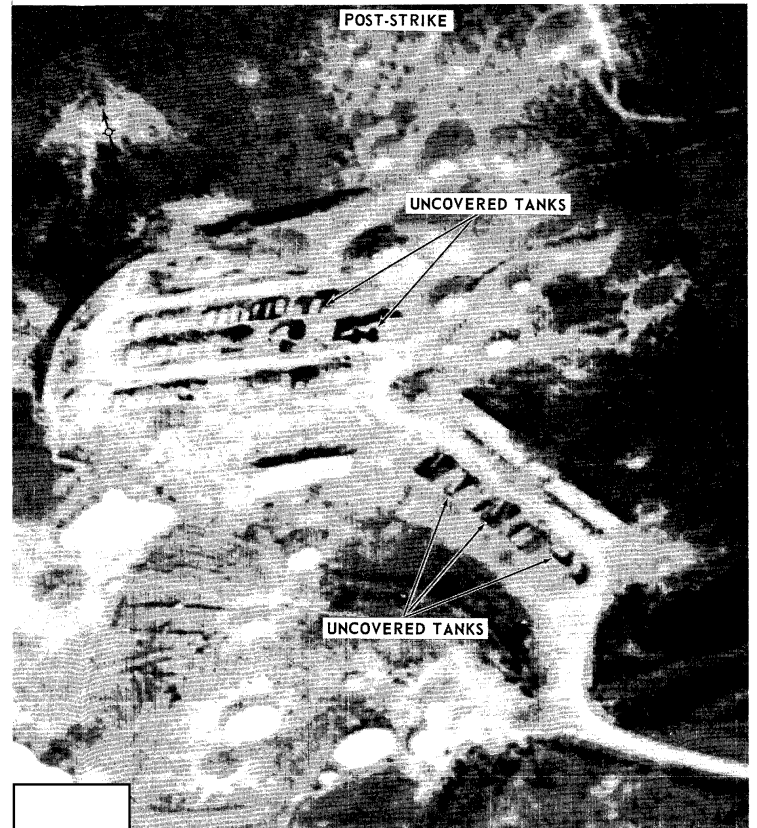
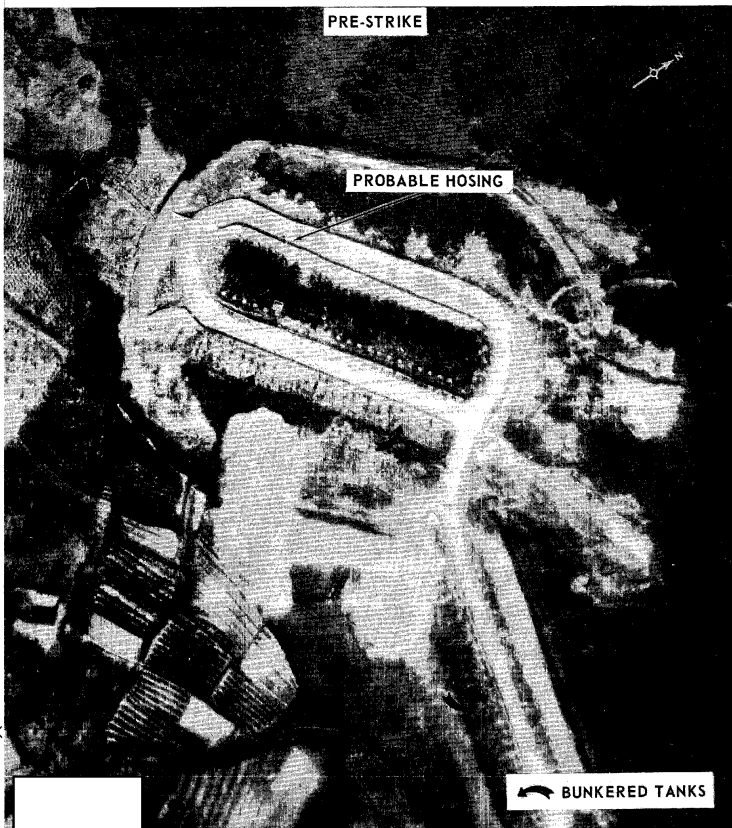
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WJ754908  
UTM COORDINATES

CU VAN PETROLEUM PRODUCTS STORAGE

2137N 10543E  
GEOGRAPHIC COORDINATES



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	WJ774926 UTM COORDINATES	2138N 10544E GEOGRAPHIC COORDINATES
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NAME: CU VAN PETROLEUM PRODUCTS STORAGE EAST UG

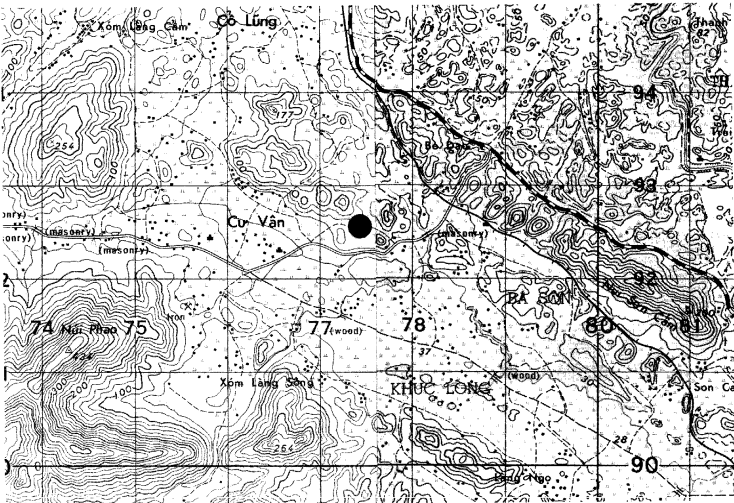
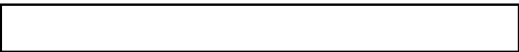
LOCATION: 0.6 NM EAST OF CU VAN AND 6.2 NM NW OF THAI NGUYEN

DESCRIPTION: AREA CONTAINS 52 LARGE BUNKERED TANKS ALONG A 0.2 NM  
SEGMENT OF A SECONDARY ROAD NORTH OF ROUTE 13A.

ESTIMATED CAPACITY: TANK 1,300 MT

MAP REFERENCES: AMS SERIES L701, SHEET 6175-IV, 1ST ED, SEP 63 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

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NINH GIANG PETROLEUM PRODUCTS STORAGE

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**UTM COORDINATES**

2045N 10631E  
**GEOGRAPHIC COORDINATES**



**BURIED POL TANKS**

B82

**CONFIDENTIAL**

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~~CONFIDENTIAL~~

25X1

7 AUGUST 1967

BE NUMBER

XH284845

2039N 10614E

UTM COORDINATES

### GEOGRAPHIC COORDINATES

NAME: DONG CHAU PETROLEUM PRODUCTS STORAGE

LOCATION: 1.8 NM WEST OF DONG CHAU AND 31 NM SE OF HA NOI ON THE NORTH BANK OF THE SUNG LUOC (CANAL DES BAMBOUS)

DESCRIPTION: ON PHOTOGRAPHY [REDACTED] THE AREA CONTAINED 120 BUNKERED  
TANKS IN 10 BUNKERS. SIXTY-SIX WERE REMOVED PRIOR TO [REDACTED] PHOTOGRAPHY  
OF [REDACTED] REVEALS AREA HAS BEEN STRUCK WITH 32 BUNKERED TANKS, 19 TANKS IN  
OPEN EXCAVATIONS, AND AT LEAST 3 DESTROYED TANKS REMAINING.

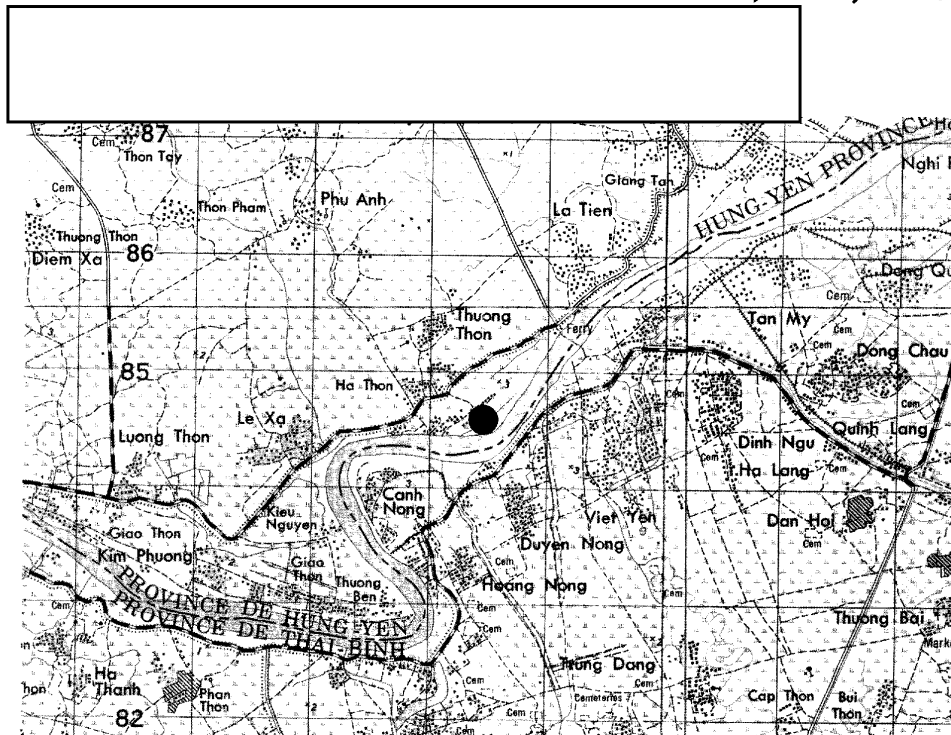
ESTIMATED CAPACITY: PRE-STRIKE TANK 1,440 MT

POST-STRIKE TANK 612 MT

**MAP REFERENCES:**

AMS SERIES L701, SHEET 6272-IV, 3D ED, MAR 61 (U)

AMS SERIES JOG (G) 1501, SHEET NF 48-15, 1ST ED, JUN 65 (U)



25X1

B83

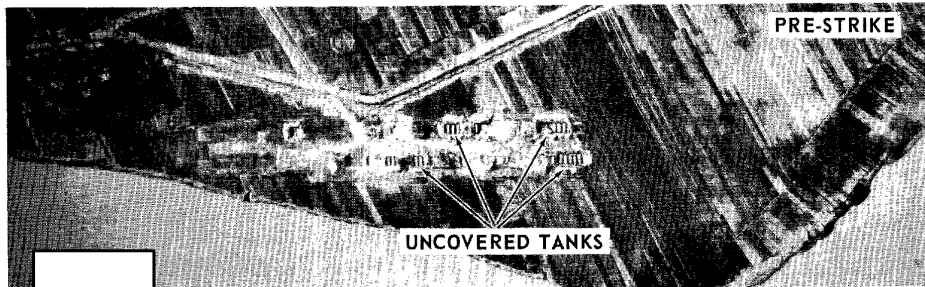
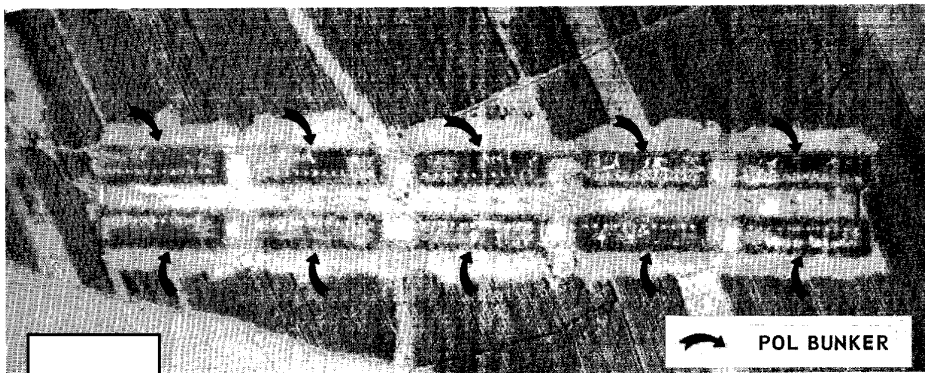
CONFIDENTIAL

CONFIDENTIAL

DONG CHAU PETROLEUM PRODUCTS STORAGE

XH284845  
UTM COORDINATES

2039N 10614E  
GEOGRAPHIC COORDINATES



25X1

B84

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25X1

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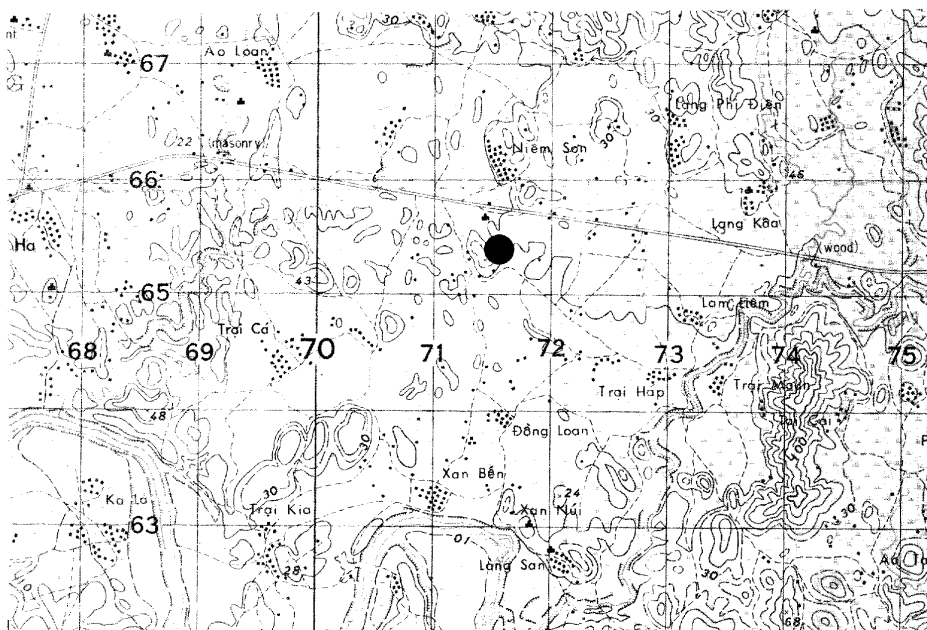
CONFIDENTIAL

25X1

R-218/66

0616-  
BE NUMBERXJ715653  
UTM COORDINATES2123N 10639E  
GEOGRAPHIC COORDINATES**NAME:** KEP HA PETROLEUM PRODUCTS STORAGE**LOCATION:** 0.7 NM WEST OF KEP HA AIRFIELD**DESCRIPTION:** THE AREA CONTAINS 8 POL TANKS IN BUNKERED STORAGE ON A SMALL HILL. THERE ARE 2 SUPPORT BUILDINGS AND 2 PROBABLE FUEL DISPENSING PUMPS. SITE IS SERVED BY LOOP ROAD.**ESTIMATED CAPACITY:** TANK 96 MT**MAP REFERENCES:** AMS SERIES L701, SHEET 6375 III, 1ST ED, MAR 63 (U)  
AMS SERIES JOG(G) 1501, NF 48-12, 1ST ED, JUN 65 (U)

25X1



25X1

B85

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25X1

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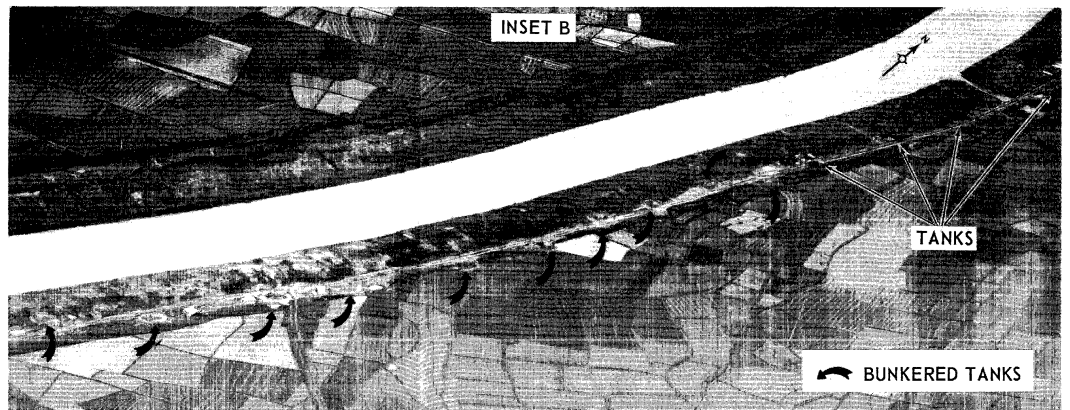
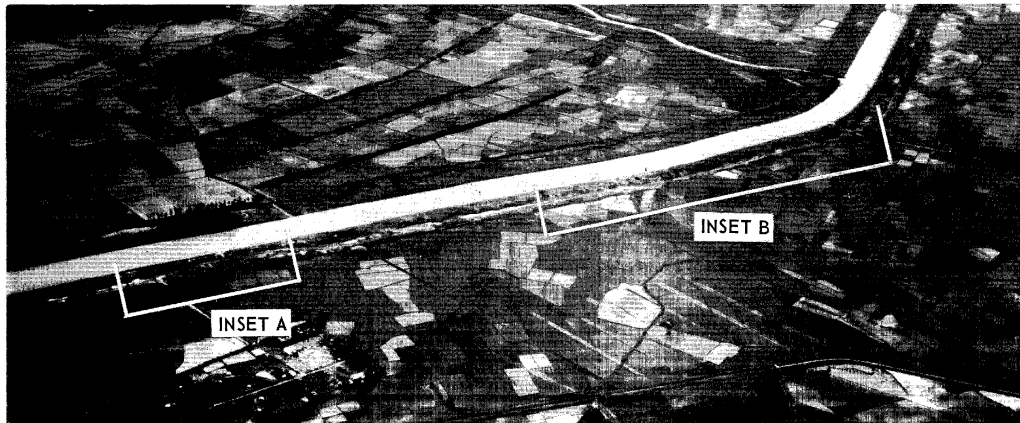
CONFIDENTIAL

R-218/66  
18 January 1967

WJ806278  
UTM COORDINATES

CO NHUE VIEN PETROLEUM PRODUCTS STORAGE

2103N 10546E  
GEOGRAPHIC COORDINATES



B100

25X1

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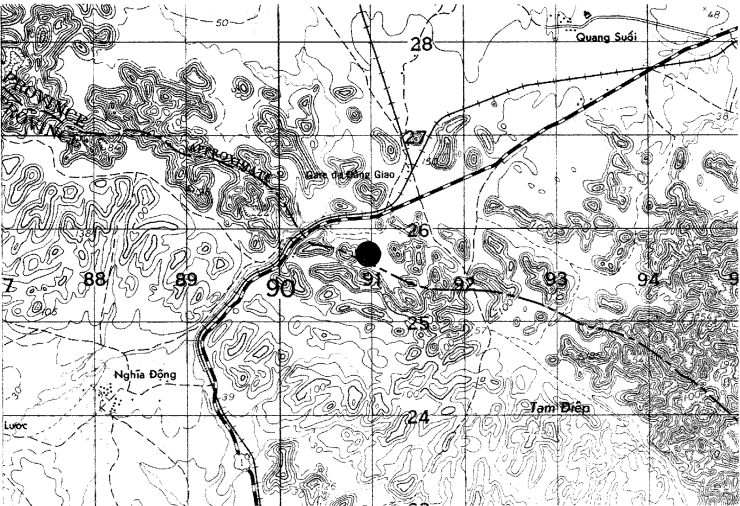
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CONFIDENTIAL

R-218/66  
7 AUGUST 1967  
25X1

	WH909257	2007N 10552E	25X1
BE NUMBER	UTM COORDINATES	GEOGRAPHIC COORDINATES	
NAME: QUANG SUOI PETROLEUM PRODUCTS STORAGE			
LOCATION: 1.8 NM SW OF QUANG SUOI AND 0.2 NM SOUTH OF ROUTE 1A AND THE HA NOI/THANH HOA RAIL LINE			
DESCRIPTION: PHOTOGRAPHY OF REVEALS 8 TANKS BURIED NEAR THE BASE OF KARST HILLS. PHOTOGRAPHY OF REVEALS 1 PROBABLY DESTROYED TANK AND 7 EMPTY EXCAVATIONS (TANKS REMOVED).			
ESTIMATED CAPACITY: PRE-STRIKE TANK 96 MT DRUM 52 MT POST-STRIKE TANK NONE			
MAP REFERENCES: AMS SERIES L7014, SHEET 6171-II, 1ST ED NOV 63 (U) AMS SERIES JOG (G) 1501, SHEET NF 48-15, 1ST ED, JUN 65 (U)			

25X1



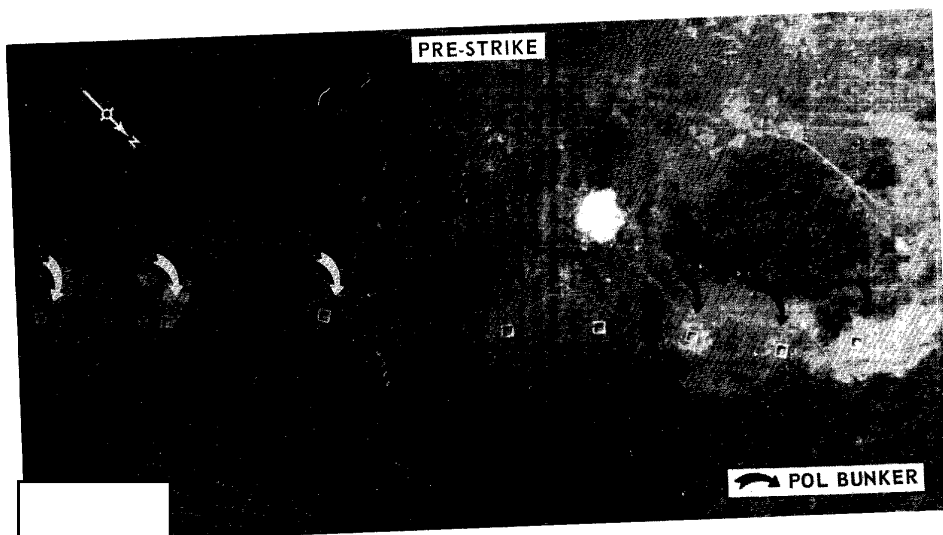
25X1

B101  
CONFIDENTIAL

25X1

CONFIDENTIAL

QUANG SUOI PETROLEUM PRODUCTS STORAGE  
WH909257  
UTM COORDINATES  
2007N 10552E  
GEOGRAPHIC COORDINATES



CONFIDENTIAL

CONFIDENTIAL

R-218/66

27 September 1966

0616-  
BE NUMBER

XJ366636  
UTM COORDINATES

2122N 10619E  
GEOGRAPHIC COORDINATES

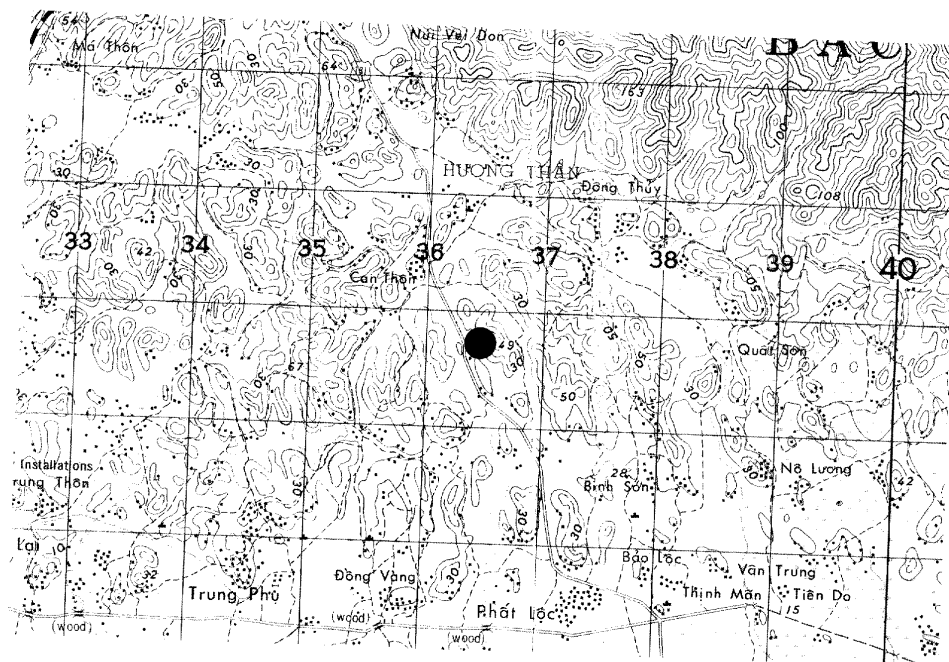
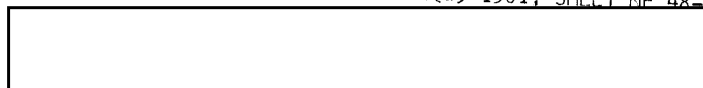
NAME: TRUNG PHU PETROLEUM PRODUCTS STORAGE

LOCATION: 1 NM NW OF BINH SON, IMMEDIATELY EAST OF ROUTE 181, AND 1.3 NM SSE OF KEP PETROLEUM PRODUCTS STORAGE

DESCRIPTION: SITE ON WEST SLOPE OF HILL CONSISTS OF AT LEAST 14 POL BUNKERS, 10 IN THE CENTER OF A LOOP ROAD AND 4 ON NORTH SIDE OF SITE, AND APPROXIMATELY 80 DRUMS IN A WOODED AREA IN NE SECTION.

ESTIMATED CAPACITY: TANK 168 MT DRUM 16 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6251 I, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)



25X1

B103

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25X1

R-218/66

VINH PETROLEUM PRODUCTS STORAGE YEN THINH  
1840N 10540E

WF717644  
UTM COORDINATES

GEOGRAPHIC COORDINATES



B110

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25X1

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7 AUGUST 1967

25X1

XE504640  
UTM COORDINATES

1745N 10625E  
GEOGRAPHIC COORDINATES

NAME: BA DON PETROLEUM PRODUCTS STORAGE PUG WEST

LOCATION: 0.3 NM NORTH OF ROUTE 110 AND 0.8 NM NW OF BA DON

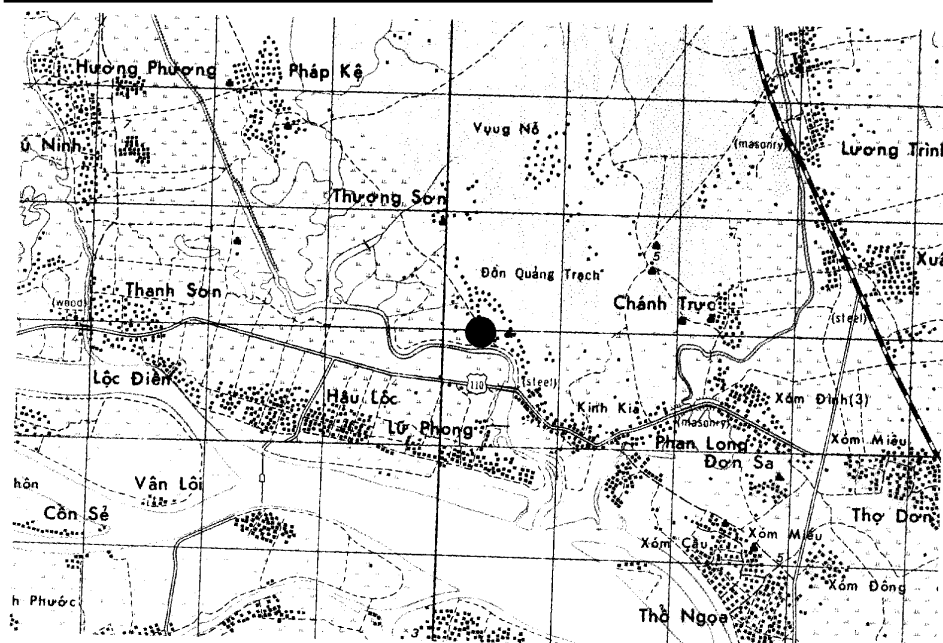
DESCRIPTION: PHOTOGRAPHY OF [REDACTED] REVEALS 7 BURIED TANKS AND APPROXIMATELY 75 DRUMS. PHOTOGRAPHY OF [REDACTED] REVEALS 2 BURIED TANKS, 4 TANKS UNCOVERED IN EXCAVATIONS, AND 1 EMPTY EXCAVATION.

ESTIMATED CAPACITY: PRE-STRIKE TANK 84 MT DRUM 15 MT

POST-STRIKE TANK 72 MT DRUM NONE

MAP REFERENCES: AMS SERIES L7014, SHEET 6244 I, 1ST ED, 1965 (U)

AMS SERIES JOG(G) 1501, SHEET NE 48-11, 1ST ED, JUN 65 (U)



25X1 B111

CONFIDENTIAL

25X1

BA DON PETROLEUM PRODUCTS STORAGE PUG WEST  
XE504640 1745N 10625E  
UTM COORDINATES GEOGRAPHIC COORDINATES



0616- BE NUMBER	XJ115396 UTM COORDINATES	2109N 10604E GEOGRAPHIC COORDINATES
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**NAME:** BAC NINH PETROLEUM PRODUCTS STORAGE

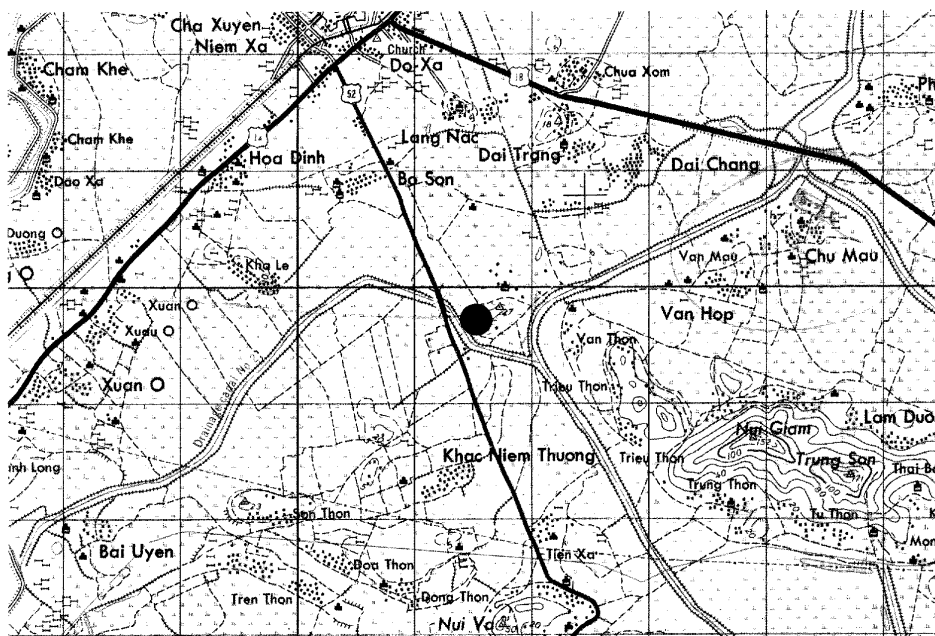
**LOCATION:** 0.1 NM EAST OF ROUTE 52, 1.7 NM SSE OF BAC NINH, 3 NM SOUTH OF THE SONG CAU (RIVER), AND 4.4 NM NORTH OF THE CANAL DES RAPIDES

**DESCRIPTION:** SITE CONSISTS OF 17 BUNKERED POL TANKS ON THE WESTERN SLOPE OF A HILL.

**ESTIMATED CAPACITY:** TANK 204 MT

**MAP REFERENCES:** AMS SERIES L7014, SHEET 6251 III, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

25X1



B113

25X1

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25X1

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CONFIDENTIAL

16 November 1966

THAI NGUYEN PETROLEUM PRODUCTS STORAGE

WJ836890  
UTM COORDINATES

2136N 10548E  
GEOGRAPHIC COORDINATES



B138

25X1

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Approved For Release 2006/05/04 : CIA-RDP78B04560A005500010036-9

25X1

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7 AUGUST 1967

25X1

25X1

XJ625149  
UTM COORDINATES

2055N 10633E  
GEOGRAPHIC COORDINATES

NAME: TIEN NONG PETROLEUM PRODUCTS STORAGE

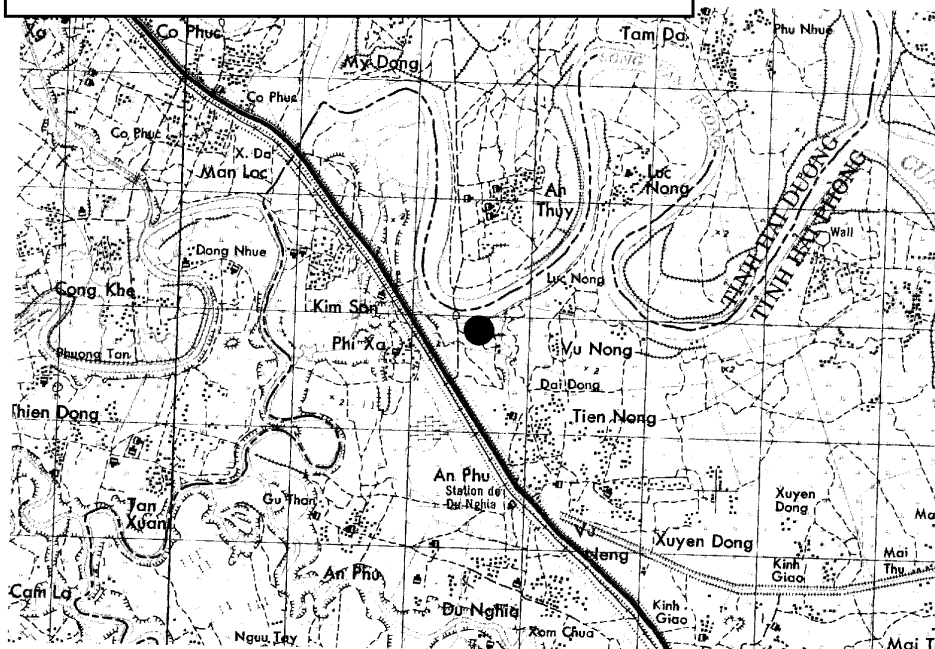
LOCATION: 0.5 NM NNW OF TIEN NONG, 8 NM NW OF HAI PHONG, ON SOUTH BANK OF SONG VAN DUONG

DESCRIPTION: AREA CONSISTS OF 14 BUNKERS CONTAINING A TOTAL OF 36 TANKS.

ESTIMATED CAPACITY: TANK 432 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6350 IV, 1ST ED, 1965 (U)  
AMS SERIES JOG (G) 1501, SHEET NF 48-16, 1ST ED, JUN 65 (U)

25X1



25X1

8139  
CONFIDENTIAL

CONFIDENTIAL

7 AUGUST 1967

TIEN NONG PETROLEUM PRODUCTS STORAGE

XJ625149  
UTM COORDINATES

2055N 10633E  
GEOGRAPHIC COORDINATES



CONFIDENTIAL

16 November 1966

CONFIDENTIAL

25X1

	WF738621 UTM COORDINATES	1839N 10542E GEOGRAPHIC COORDINATES
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**NAME:** VINH PETROLEUM PRODUCTS STORAGE PUG BEN THUY

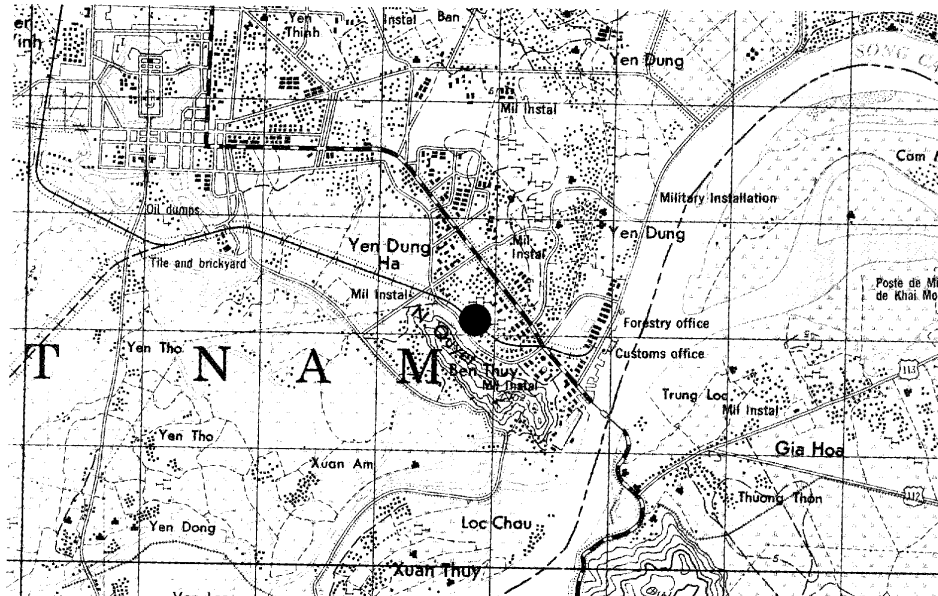
**LOCATION:** 1.8 NM SE OF VINH, 0.6 NM NW OF BEN THUY PORT AND THE SONG CA

**DESCRIPTION:** AREA CONTAINS 8 BUNKERED TANKS IN PAIRS ADJACENT TO RAIL LINE AND 6 TANKS IN SINGLE BUNKER ADJACENT TO RAIL SPUR.

**ESTIMATED CAPACITY:** TANK 168 MT

**MAP REFERENCES:** AMS SERIES L7014, SHEET 6146-III, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NE 48-7, 1ST ED, JUN 65 (U)

25X1



25X1

B141

CONFIDENTIAL



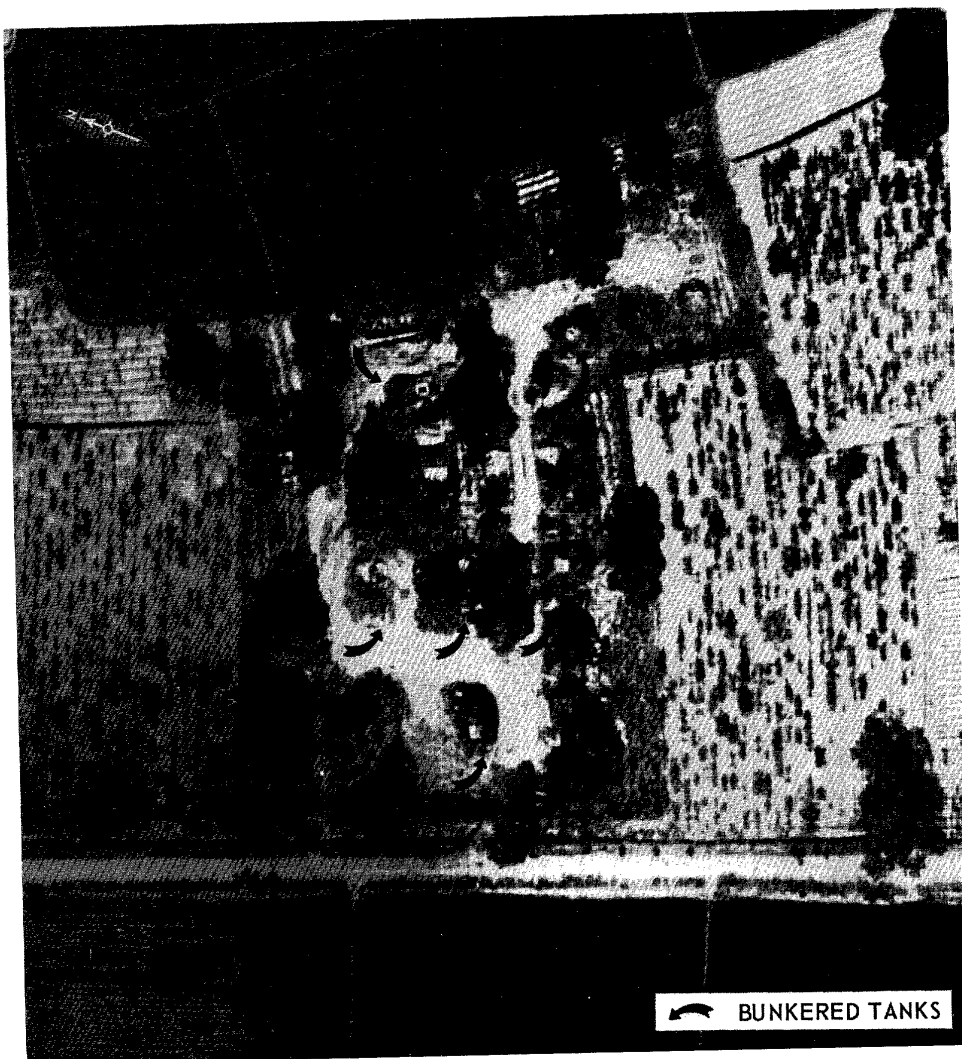
Approved For Release 2006/05/04 : CIA-RDP78B04560A005500010036-9  
25X1 [REDACTED] 1 December 1966

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HANOI PETROLEUM PRODUCTS STORAGE DUC NOI (AREA 5)

WJ899372  
**UTM COORDINATES**

2108N 10551E  
**GEOGRAPHIC COORDINATES**



25X1

B164  
**CONFIDENTIAL**

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R-218/66  
7 AUGUST 1967

25X1

25X1

WJ865603  
UTM COORDINATES

2120N 10550E  
GEOGRAPHIC COORDINATES

NAME: HA GIA PETROLEUM PRODUCTS STORAGE NW

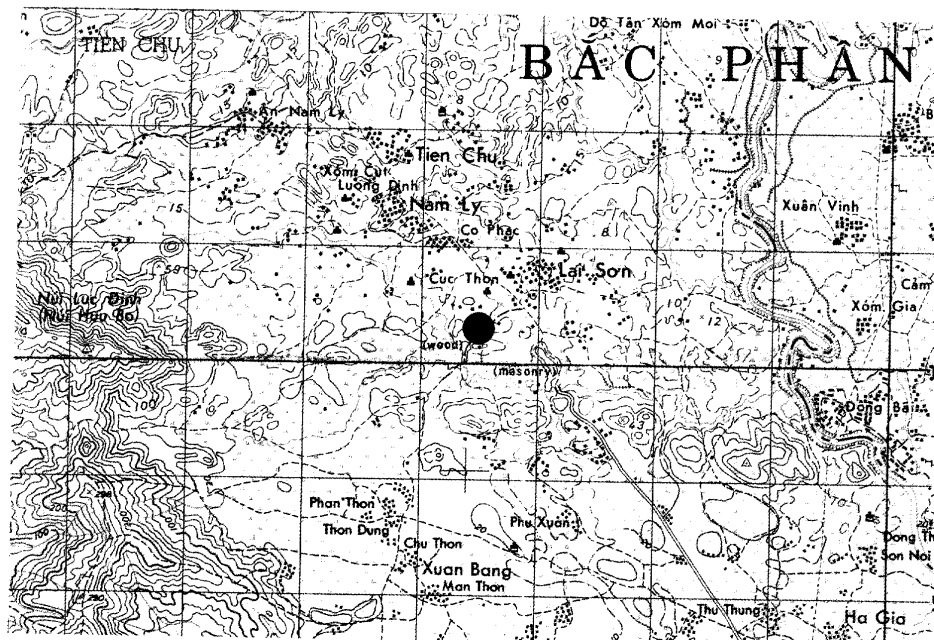
LOCATION: 2.2 NM NW OF HA GIA

DESCRIPTION: AREA CONTAINS 36 LARGE AND 3 STANDARD SEPARATELY BUNKERED  
TANKS DISPERSED AMONG LOW HILLS.

ESTIMATED CAPACITY: TANK 936 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-I, 1ST ED, 1964 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

25X1



25X1

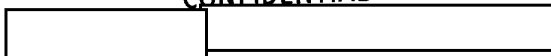
B165

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**CONFIDENTIAL**

18/66  
7 AUGUST 1967

25X1



HA GIA PETROLEUM PRODUCTS STORAGE NW

2120N 10550E

WJ865603  
UTM COORDINATES

GEOGRAPHIC COORDINATES



25X1

B166

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R-218/66  
18 January 1967

0616-  
BE NUMBER

XJ813063  
UTM COORDINATES

2051N 10644E  
GEOGRAPHIC COORDINATES

NAME: PHU XA PETROLEUM PRODUCTS STORAGE

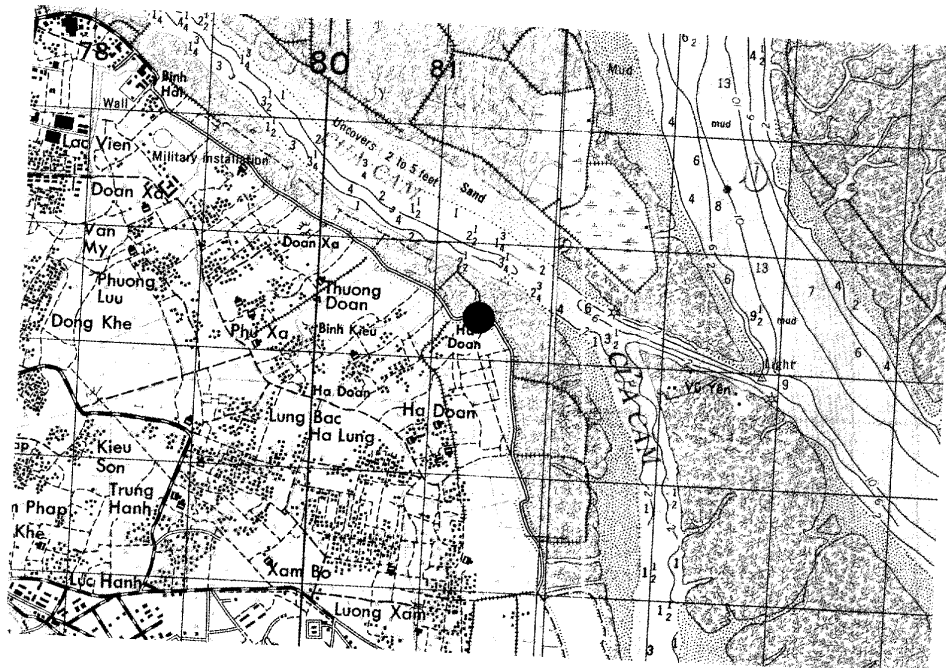
LOCATION: 1 NM EAST OF PHU XA, 3 NM EAST OF HAI PHONG, NEAR THE WEST BANK  
OF THE CUA CAM

DESCRIPTION: AREA CONTAINS 3 BUNKERS WITH A TOTAL OF 8 LARGE TANKS. THREE  
POL BARGES ARE APPARENT ON THE CUA CAM 0.5 NM NW OF AREA.

ESTIMATED CAPACITY: TANK 200 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6350 IV, 1ST ED, 1965 (U)  
AMS SERIES JOG(G) 1501, SHEET NE 48-16, 1ST ED, JUN 65 (U)

25X1



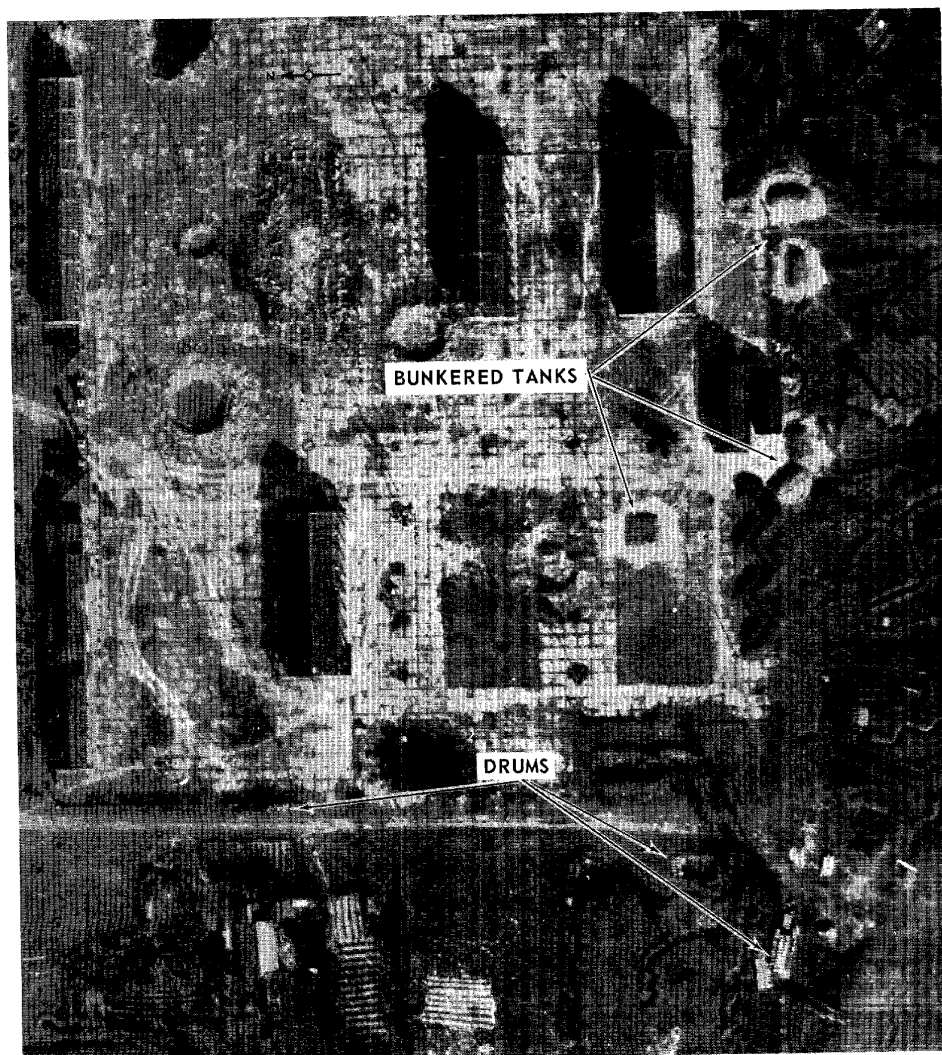
25X1 B167

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VINH PETROLEUM PRODUCTS STORAGE SE PUG

WF715632  
UTM COORDINATES

1839N 10540E  
GEOGRAPHIC COORDINATES



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R-218/66  
7 AUGUST 1967

0616-  
BE NUMBER

XJ338672  
UTM COORDINATES

212415N 1061730E  
GEOGRAPHIC COORDINATES

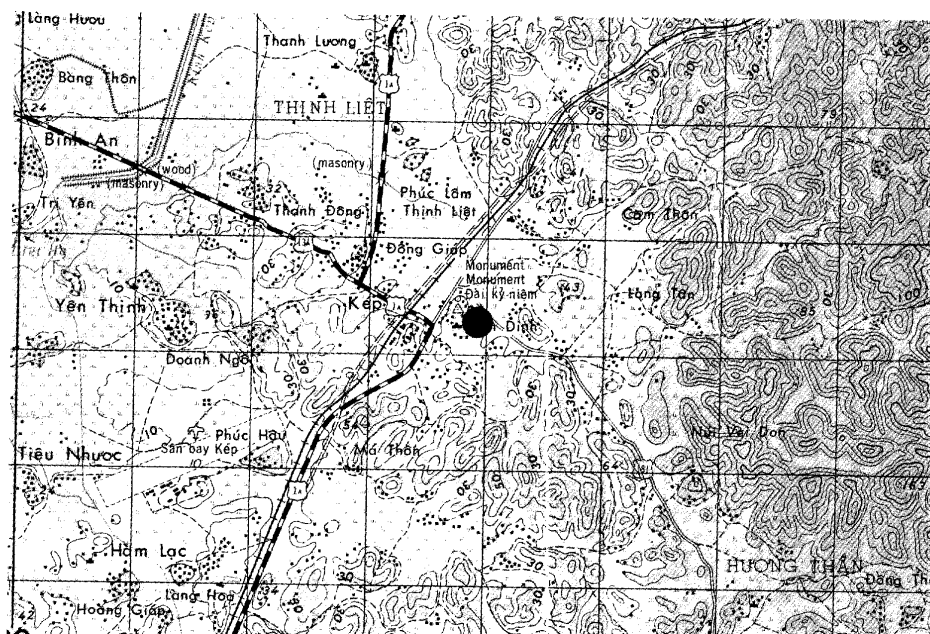
NAME: KEP PETROLEUM PRODUCTS STORAGE

LOCATION: 1.5 NM NE OF KEP AIRFIELD AND 0.5 NM EAST OF KEP RAILYARD

DESCRIPTION: PHOTOGRAPHY OF [REDACTED] REVEALS AREA UNDER CONSTRUCTION. PHOTOGRAPHY [REDACTED] REVEALS A ROAD-SERVED, FENCE-SECURED STORAGE AREA CONSISTING OF 2 VERTICAL [REDACTED] CYLINDRICAL, PARTIALLY UNDERGROUND TANKS (APPROXIMATELY UNDERGROUND PIPING LEADS FROM TANKS TO THE VICINITY OF THE RAILYARD.

ESTIMATED CAPACITY: TANK 500 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6251 I, 1ST ED, 1965 (U)  
AMS SERIES JOG (G) 1501, SHEET



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KEP PETROLEUM PRODUCTS STORAGE

XJ338672  
UTM COORDINATES

212415N 1061730E  
GEOGRAPHIC COORDINATES



25X1

**CONFIDENTIAL**

7 AUGUST 1967

25X1

	WJ457374	210820N 1052625E
	UTM COORDINATES	GEOGRAPHIC COORDINATES

**NAME:** DONG SANG PETROLEUM PRODUCTS STORAGE

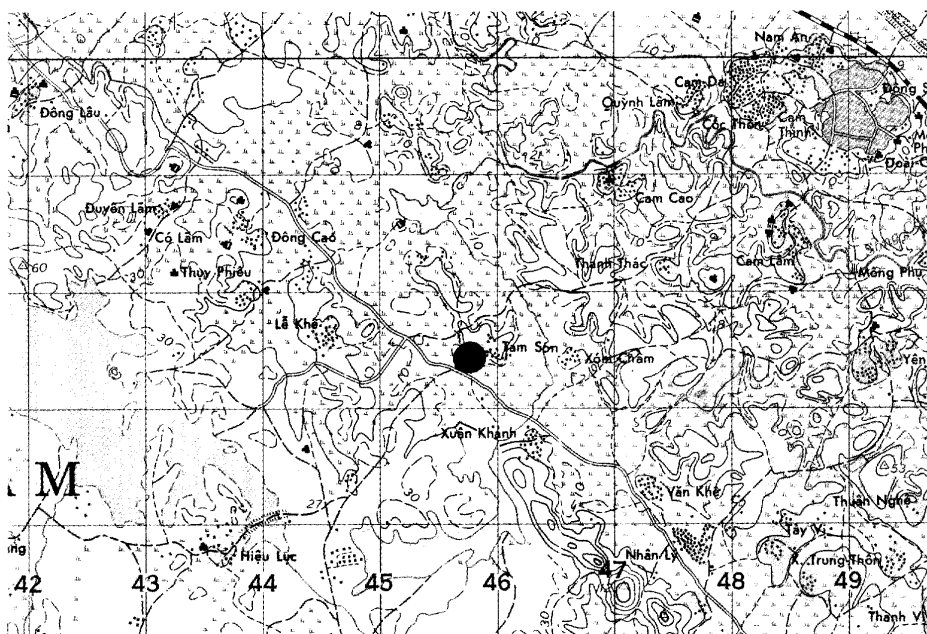
**LOCATION:** 2.2 NM SW OF DONG SANG AND 2.7 NM WEST OF THE RED RIVER

**DESCRIPTION:** AREA CONTAINS 9 BUNKERED TANKS AND 1 TANK EXPOSED IN OPEN EXCAVATION.

**ESTIMATED CAPACITY:** TANK 120 MT

**MAP REFERENCES:** AMS SERIES L7014, SHEET 6051 II, 1ST ED, 1965 (U)  
AMS SERIES JOG (G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

25X1



25X1

B195

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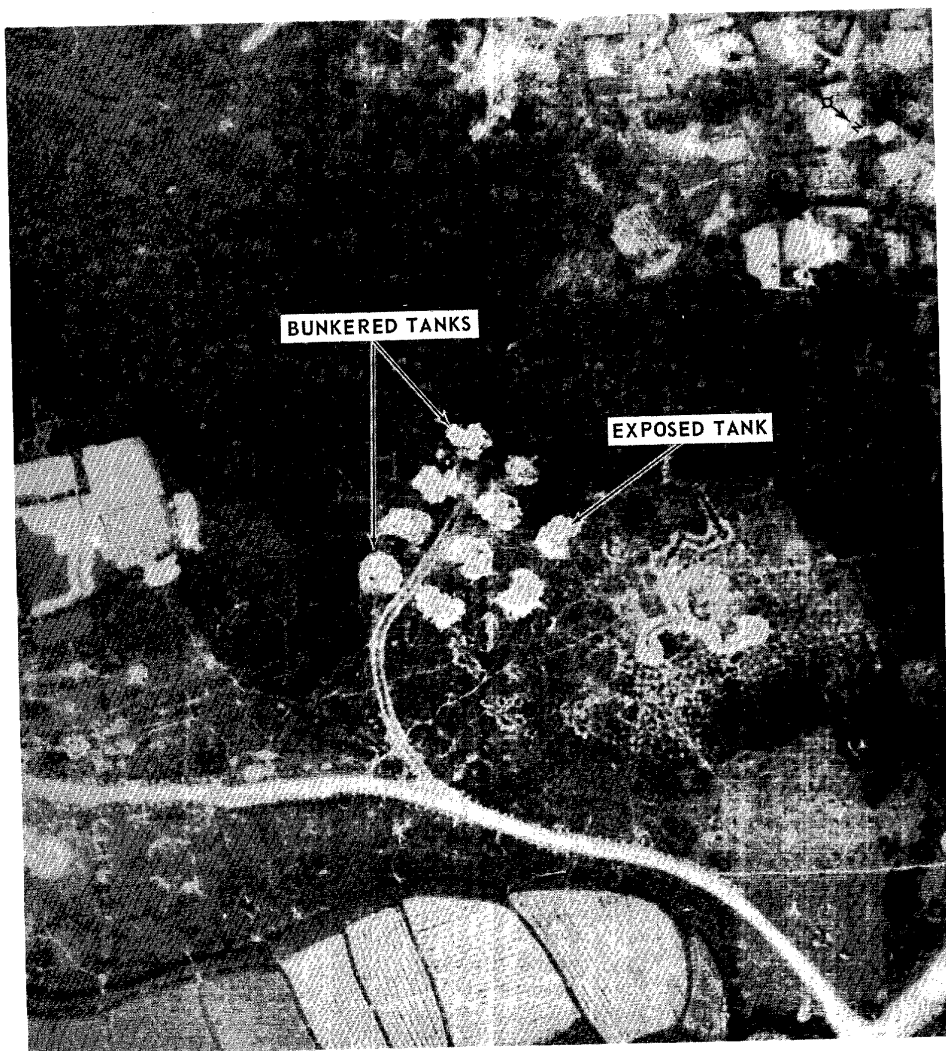
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**CONFIDENTIAL**

DONG SANG PETROLEUM PRODUCTS STORAGE

WJ457374  
UTM COORDINATES

210820N 1052625E  
GEOGRAPHIC COORDINATES



25X1

B196

**CONFIDENTIAL**

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R-218/66  
7 AUGUST 1967

25X1

WJ796546  
UTM COORDINATES

211716N 1054609E  
GEOGRAPHIC COORDINATES

NAME: LAP TRI PETROLEUM PRODUCTS STORAGE

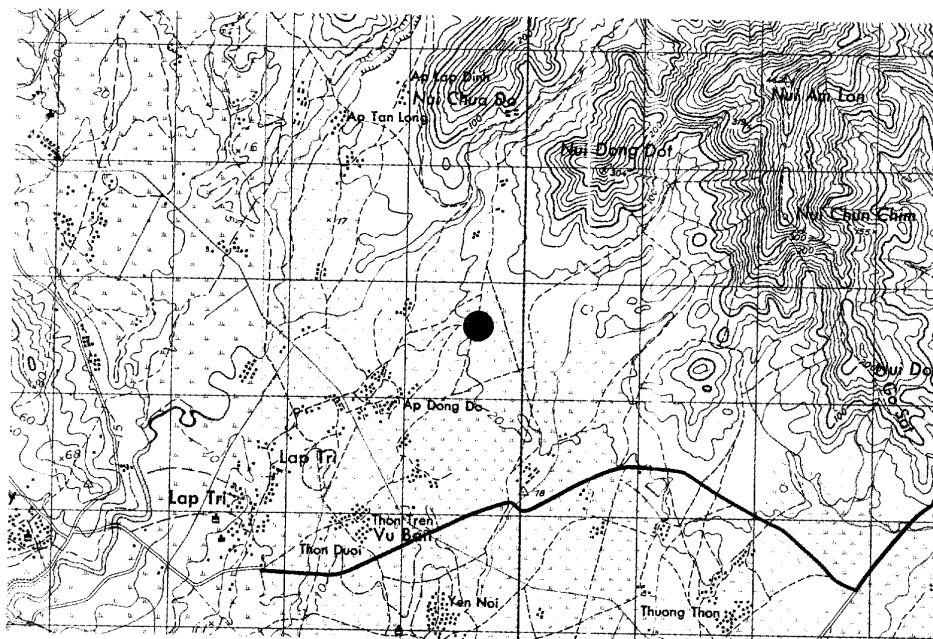
LOCATION: 1.3 NM NE OF LAP TRI AND 5 NM NW OF PHUC YEN AIRFIELD

DESCRIPTION: AREA CONTAINS 39 LARGE BUNKERED TANKS AND 15 EMPTY EXCAVATIONS  
WIDELY DISPERSED AMONG LOW HILLS.

ESTIMATED CAPACITY: TANK 975 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6151-I, 1ST ED, 1965 (U)  
AMS SERIES JOG (G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

25X1



25X1

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25X1

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25X1

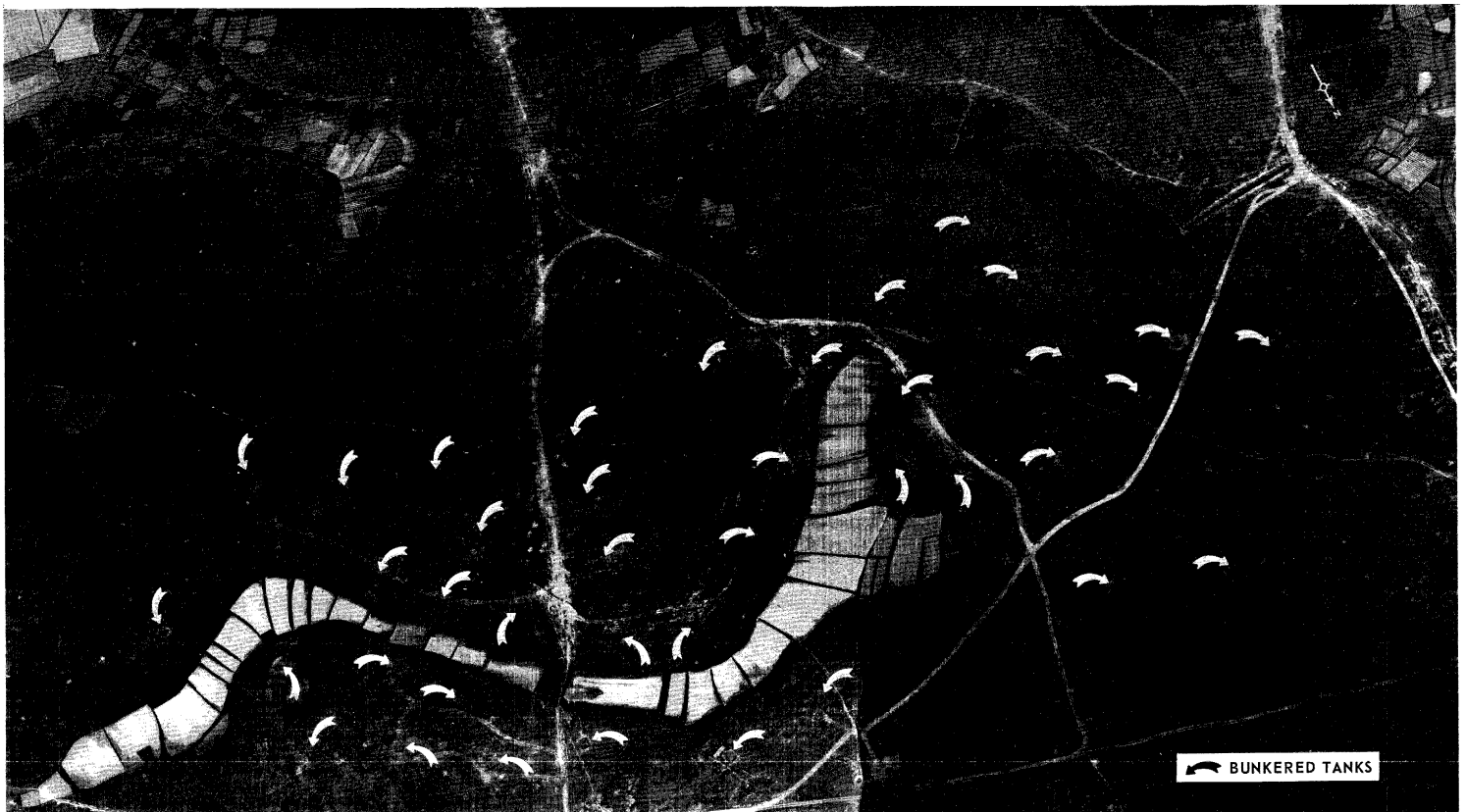
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R-218/66  
7 AUGUST 1967

LAP TRI PETROLEUM PRODUCTS STORAGE

WJ796546  
UTM COORDINATES

211716N 1054609E  
GEOGRAPHIC COORDINATES



25X1

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25X1

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25X1

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R-218/66  
7 AUGUST 1967  
25X1

0617- BE NUMBER	XE737163 UTM COORDINATES	171937N 1063710E GEOGRAPHIC COORDINATES
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NAME: LONG DAI PETROLEUM PRODUCTS STORAGE

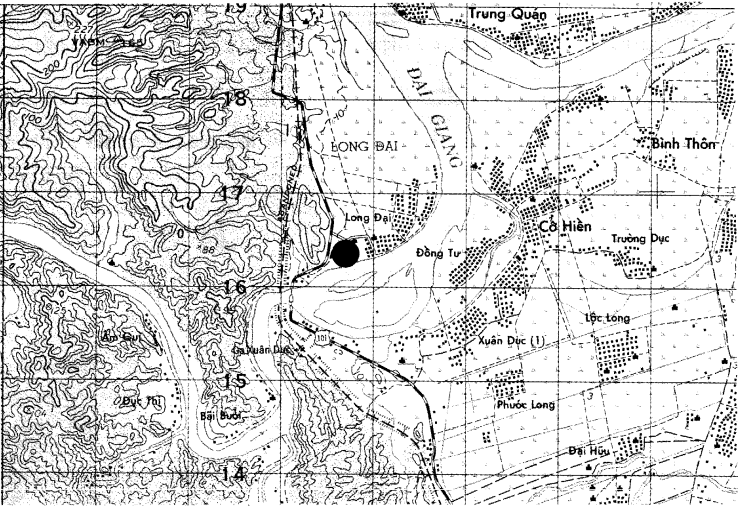
LOCATION: ON NORTH BANK OF THE DAI GIANG, 0.2 NM WSW OF LONG DAI, 0.1 NM EAST OF ROUTE 101

DESCRIPTION: SITE CONSISTS OF 2 EXCAVATIONS CONTAINING 6 EXPOSED TANKS, AND 3 PARTIALLY BURIED TANKS.

ESTIMATED CAPACITY: TANK 225 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6343-IV, 1ST ED, 1965 (U)  
AMS SERIES JOG (G) 1501, SHEET NE 48-12, 1ST ED, JUN 65 (U)

25X1



25X1

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25X1

25X1  
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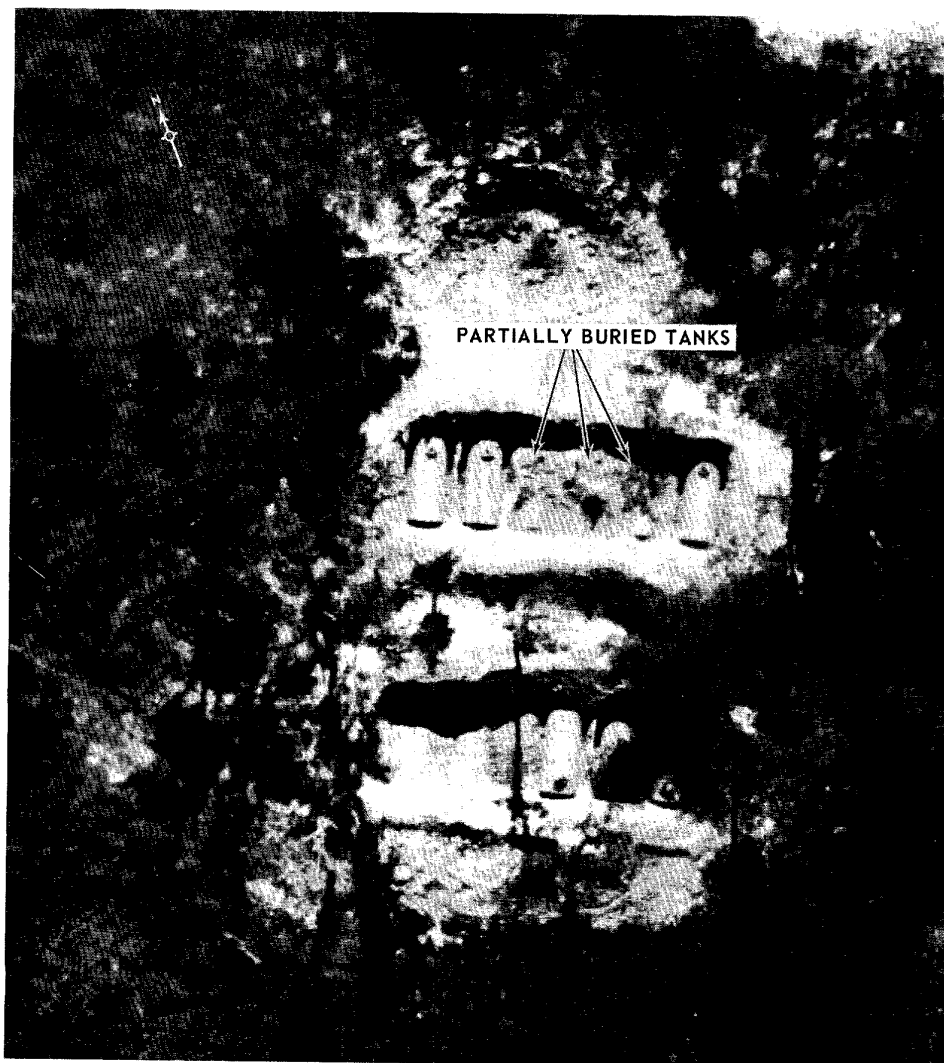
R-218/66  
7 AUGUST 1967

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LONG DAI PETROLEUM PRODUCTS STORAGE

XE737163  
UTM COORDINATES

171937N 1063710E  
GEOGRAPHIC COORDINATES



25X1

B200

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Approved For Release 2006/05/04 : CIA-RDP78B04560A005500010036-9

25X1

25X1

XJ638149  
UTM COORDINATES

2055N 10634E  
GEOGRAPHIC COORDINATES

NAME: LUC NONG PETROLEUM PRODUCTS STORAGE

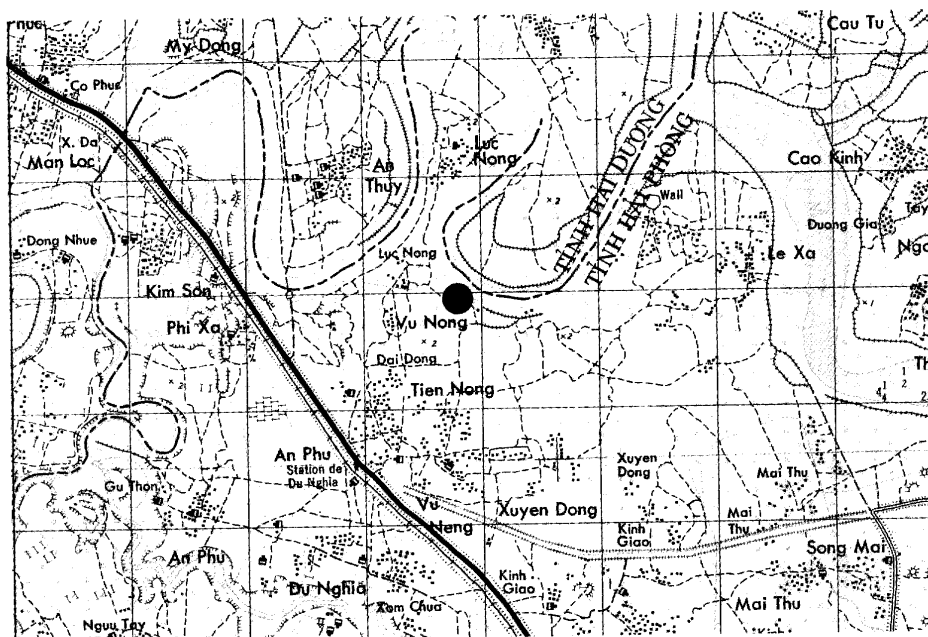
LOCATION: 7.7 NM NW OF HAI PHONG, 0.6 NM SOUTH OF LUC NONG, ON SOUTH BANK OF  
THE SONG VAN DUONG

DESCRIPTION: AREA CONTAINS 60 BUNKERED STORAGE TANKS IN 6 ROWS.

ESTIMATED CAPACITY: TANK 720 MT

MAP REFERENCES: AMS SERIES L7014, SHEET 6350-IV, 1ST ED, 1965 (U)  
AMS SERIES JOG (G) 1501, SHEET NF 48-16, 1ST ED, JUN 65 (U)

25X1



25X1

B201

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CONFIDENTIAL

25X1



LUC NONG PETROLEUM PRODUCTS STORAGE

XJ638149  
UTM COORDINATES

2055N 10634E  
GEOGRAPHIC COORDINATES

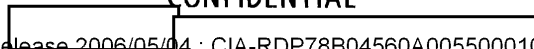


BUNKERED TANKS

B202

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25X1



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7 August 1967

25X1

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	Ninh Binh (POL Tanks in Sampan)	D7, D8
	Thanh Thuy POL Tanks	D9, D10
	Lang Khe POL Storage Area Under Construction	D11, D12
	Nho Lam POL Drum Transshipment Area	D13, D14
	Phuc Yen POL Truck Dispersal Area	D15, D16
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25X1

**CONFIDENTIAL**



CONFIDENTIAL

R-218/66

0616-  
BE NUMBER

WJ809323  
UTM COORDINATES

2105N 10546E  
GEOGRAPHIC COORDINATES

**NAME:** THUY PHUONG POL STORAGE TANKS

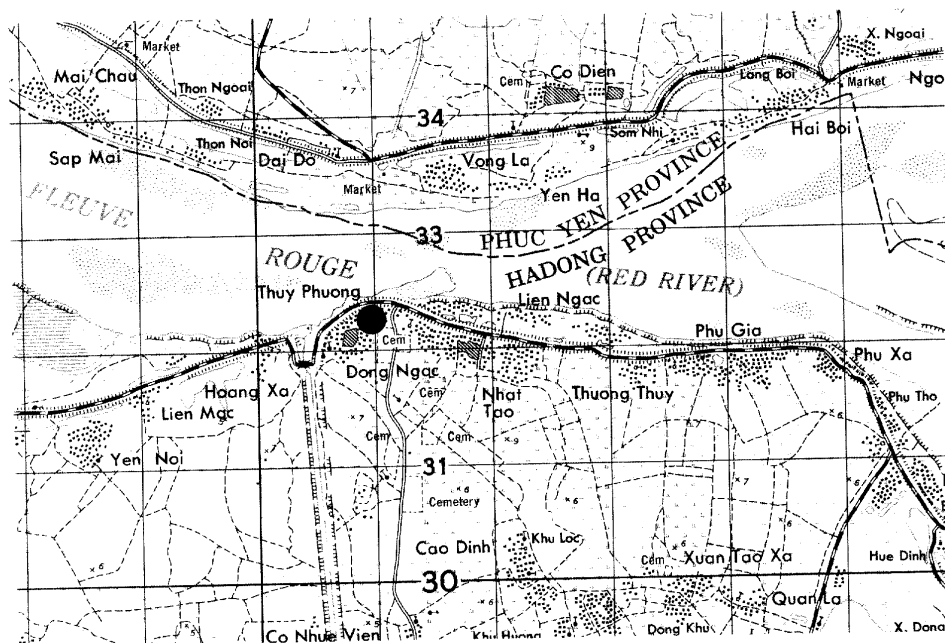
**LOCATION:** NE SECTION OF THUY PHUONG AND 5.3 NM NW OF HA NOI

**DESCRIPTION:** SITE CONTAINS A TOTAL OF 65 (55 STANDARD AND 10 LARGE) TANKS IN RANDOM STORAGE. THIRTY-SIX UNASSEMBLED TANK SECTIONS ARE ALSO OBSERVED. NO PERMANENT POL STORAGE FACILITY IS APPARENT AT THIS SITE.

**ESTIMATED CAPACITY:** NOT APPLICABLE

**MAP REFERENCES:** AMS SERIES L701, SHEET 6174 II, 3D ED, APR 63 (U)  
AMS SERIES JOG(G) 1501, SHEET NF 48-11, 1ST ED, JUN 65 (U)

25X1



25X1

D1  
CONFIDENTIAL

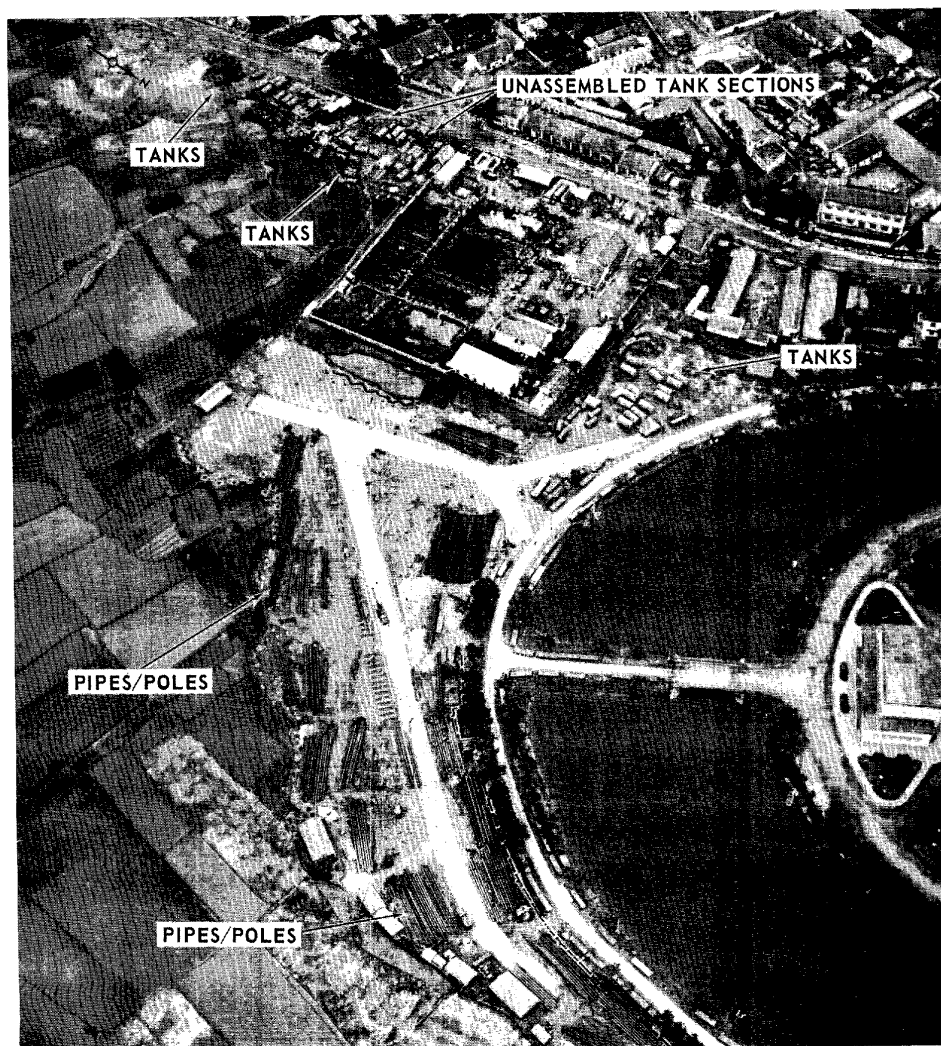
CONFIDENTIAL

4 May 1967

HAI PHONG TANK FABRICATION SHOP EAST

XJ764058  
UTM COORDINATES

2050N 10641E  
GEOGRAPHIC COORDINATES



25X1

D58

CONFIDENTIAL

CONFIDENTIAL

R-218/66  
7 AUGUST 1967

25X1

25X1A

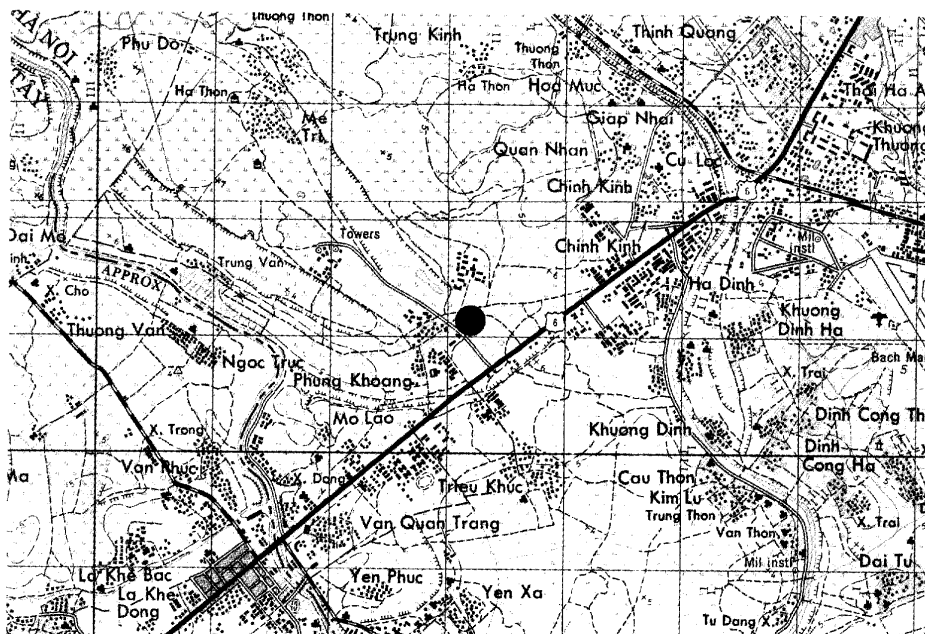
0616-  
BE NUMBERWJ832211  
UTM COORDINATES205925N 1054801E  
GEOGRAPHIC COORDINATES

NAME: HA DONG TANK FABRICATION AREA

LOCATION: 16 NM NE OF HA DONG, WITHIN THE HA DONG ARMY SUPPLY DEPOT (BE NO

DESCRIPTION: AREA CONTAINS AT LEAST 18 APPARENTLY FINISHED TANKS AND 15 UNASSEMBLED TANK SECTIONS.

ESTIMATED CAPACITY: NOT APPLICABLE

MAP REFERENCES: AMS SERIES L7014, SHEET 6150-1, 1ST ED, 1965 (U)  
AMS SERIES JOG (G) 1501, SHEET NF 48-15, 1ST ED, JUN 65 (U)

D59

CONFIDENTIAL

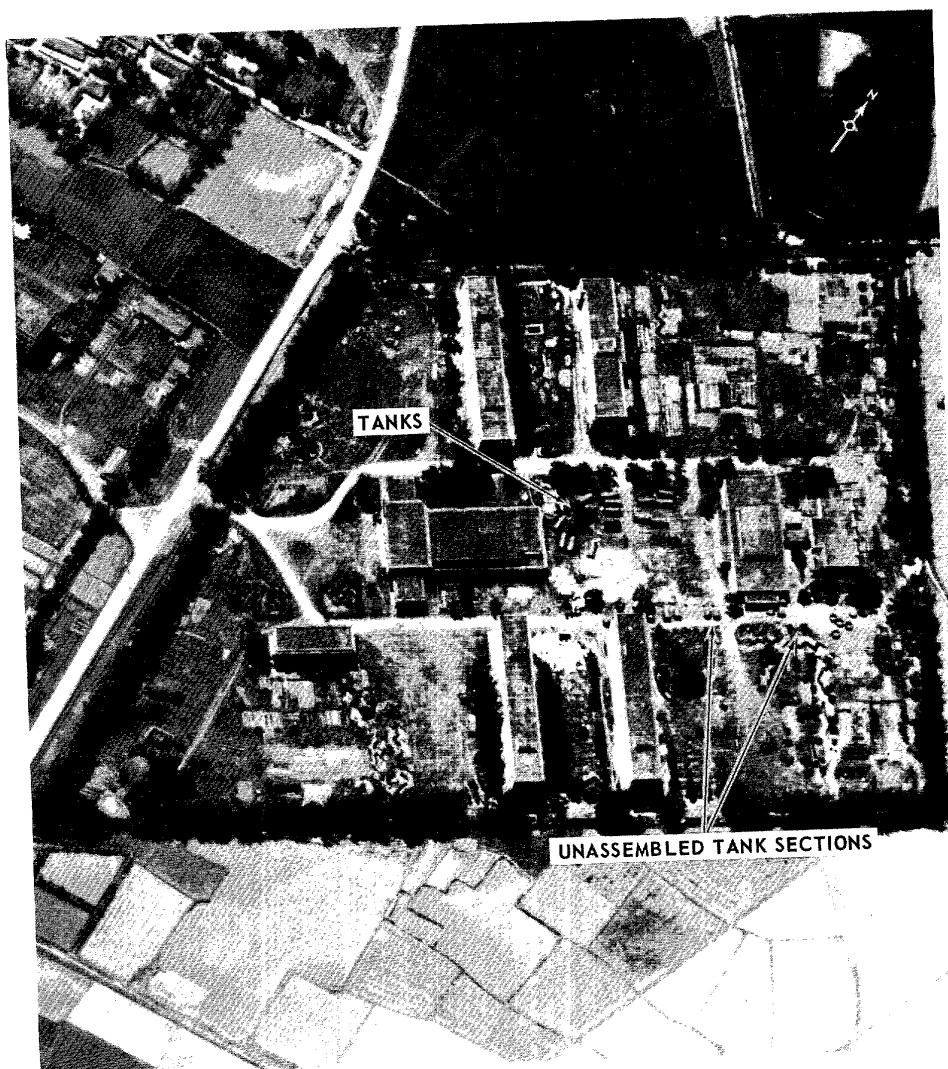
CONFIDENTIAL

7 AUGUST 1967

HA DONG TANK FABRICATION AREA

WJ832211  
UTM COORDINATES

205925N 1054801E  
GEOGRAPHIC COORDINATES



CONFIDENTIAL

SECRET

8 March 1967

25X1

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25X1

SECRET

25X1

SECRET

R-218/66

7 August 1967

25X1

25X1

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SECRET

25X1

25X1

R-218/66  
7 August 1967

~~SECRET~~

25X1

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25X1

~~SECRET~~

25X1

**SECRET**

25X1

[REDACTED]  
BAI THUONG PETROLEUM PRODUCTS STORAGE UNDERGROUND SOUTHEAST

25X1

WG436952  
**UTM COORDINATES**1951N 10525E  
**GEOGRAPHIC COORDINATES**PRE-STRIKE TARGET DESCRIPTION

THIS ROAD-SERVED STORAGE AREA IS 4.2 NM SW OF BAI THUONG AIRFIELD AND 3.2 NM SE OF BAI THUONG. PRIOR TO STRIKE, IT CONTAINED APPROXIMATELY 110 BURIED TANKS, 60 UNBURIED TANKS, AND 7 OPEN EXCAVATIONS, AND HAD AN ESTIMATED CAPACITY OF 2,040 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

THREE SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 9 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. IDENTIFIED AAA ACTIVITY WITHIN 3 NM OF THE TARGET INCLUDES 11 SITES CONSISTING OF 41 OCCUPIED 37MM/57MM REVETMENTS AND 21 OCCUPIED 85MM/100MM REVETMENTS. IN ADDITION, THERE ARE 3 INACTIVE SITES IN THE AREA. MODERATE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

BOMB DAMAGE ASSESSMENT

THE TARGET WAS STRUCK ON 19, 24, 27, AND 28 AUGUST 1966 AND AGAIN ON 8 AND 10 SEPTEMBER BY 16 USN AIRCRAFT. ORDNANCE EXPENDED CONSISTED OF 26/1000#GP, 15/500#GP, AND 8/250#GP BOMBS, AND 57/2.75" ROCKETS.

POST-STRIKE PHOTOGRAPHY REVEALS EXTENSIVE CRATERS IN THE AREA, AND APPARENT ATTEMPTS TO RECLAIM POL AND/OR TANKS. THE SITE NOW CONTAINS 3 LARGE AND 20 STANDARD TANKS IN OPEN EXCAVATIONS OR ABOVEGROUND AT THE STORAGE SITE, AND AN ADDITIONAL 20 STANDARD TANKS ABOVEGROUND ALONG ROADS WEST OF THE STORAGE SITE. POST-STRIKE ESTIMATED CAPACITY IS 555 MT.

PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-B11

25X1

**SECRET**

25X1



25X1  
**SECRET**

R-218, '66  
7 AUGUST 1967

25X1  
SON CHAU PETROLEUM PRODUCTS STORAGE TARGET UNDERGROUND

25X1  
WE761351  
**UTM COORDINATES**

25X1

1918N 10543E  
**GEOGRAPHIC COORDINATES**

PRE-STRIKE TARGET DESCRIPTION

25X1  
THIS STORAGE AREA IS 0.7 NM SOUTH OF SON CHAU AND IMMEDIATELY WEST OF ROUTE 1A AND THE THANH HOA - VINH RAIL LINE. PRE-STRIKE PHOTOGRAPHY OF [REDACTED] REVEALED 32 BURIED TANKS, 18 UNBURIED TANKS, AND APPROXIMATELY 600 DRUMS. ESTIMATED CAPACITY OF THE RAIL- AND ROAD-SERVED SITE WAS 470 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

THREE SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET AND 8 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. LIGHT AAA ACTIVITY AND SPARSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

BOMB DAMAGE ASSESSMENT

25X1  
PHOTOGRAPHY OF [REDACTED] REVEALS THE TARGET EXTENSIVELY CRATERED FROM PREVIOUS STRIKES, AND ABANDONED AS A STORAGE SITE. EIGHT PROBABLY DAMAGED TANKS ARE OBSERVED ABOVEGROUND. THE SITE HAS NO PRESENT STORAGE CAPACITY.

25X1  
PREPARED BY DEFENSE INTELLIGENCE AGENCY

X-B31

**SECRET**

**SECRET**

R-218 '66  
7 AUGUST 1967

25X1

25X1

[REDACTED]  
CU VAN PETROLEUM PRODUCTS STORAGE

25X1

WJ754908  
**UTM COORDINATES**

2137N 10543E  
**GEOGRAPHIC COORDINATES**

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE IS 1 NM SSW OF CU VAN AND 7.1 NM NW OF THAI NGUYEN. PRIOR TO STRIKE IT CONTAINED 94 LARGE BUNKERED TANKS WITH AN ESTIMATED CAPACITY OF 2,350 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

FIFTEEN SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 30 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. NO AAA ACTIVITY HAS BEEN IDENTIFIED WITHIN 3 NM. SPARSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

BOMB DAMAGE ASSESSMENT

25X1

POST-STRIKE PHOTOGRAPHY OF [REDACTED] REVEALS AN EFFORT TO RECLAIM STORAGE TANKS FROM THIS SITE, WITH 20 UNCOVERED TANKS AND 14 BUNKERED TANKS OBSERVED. ESTIMATED CAPACITY IS 850 MT.

25X1

PREPARED BY DEFENSE INTELLIGENCE AGENCY

X-B43

**SECRET**

25X1

**SECRET**

25X1

25X1

DONG CHAU PETROLEUM PRODUCTS STORAGE

25X1

XH284845  
**UTM COORDINATES**2039N 10614E  
**GEOGRAPHIC COORDINATES**PRE-STRIKE TARGET DESCRIPTION

THIS FACILITY LIES 1.8 NM WEST OF DONG CHAU AND 31 NM SE OF HA NOI, ON THE NORTH BANK OF CANAL DES BAMBOUS. IT IS WATER SERVED AND ORIGINALLY CONTAINED 120 BURIED POL TANKS IN 10 BUNKERS. PRE-STRIKE ESTIMATED CAPACITY WAS 1,440 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

THIRTEEN SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 36 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. NO AAA ACTIVITY HAS BEEN IDENTIFIED IN THE AREA. SPARSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

BOMB DAMAGE ASSESSMENT

25X1

PHOTOGRAPHY OF  REVEALS THAT THE STORAGE SITE HAS BEEN STRUCK AND AN APPARENT EFFORT HAS BEEN MADE TO RECLAIM POL STORAGE TANKS. THREE TANKS ARE DESTROYED, 19 TANKS ARE IN OPEN EXCAVATIONS, AND 32 TANKS REMAIN BUNKERED. PRIOR TO STRIKE 66 TANKS WERE REMOVED FROM THE SITE. ESTIMATED CAPACITY IS 612 MT.

PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-B83

25X1

**SECRET**

25X1

**SECRET**

R-218, '67  
7 AUGUST 1967

25X1

QUANG SUOI PETROLEUM PRODUCTS STORAGE

25X1

25X1

WH909257  
**UTM COORDINATES**

2007N 10552E  
**GEOGRAPHIC COORDINATES**

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE FACILITY IS 1.8 NM SW OF QUANG SUOI AND 0.2 NM SOUTH OF ROUTE 1A. PHOTOGRAPHY OF [REDACTED] REVEALED THE AREA TO CONTAIN 8 BURIED POL TANKS AND AT LEAST 250 DRUMS WITH AN ESTIMATED CAPACITY OF 96 MT IN TANKS AND 52 MT IN DRUMS. PHOTOGRAPHY OF [REDACTED] REVEALED THAT 7 TANKS HAVE BEEN REMOVED FROM THE SITE AND 1 TANK DESTROYED. AT THE PRESENT TIME, THE SITE HAS NO STORAGE CAPACITY.

25X1

25X1

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

THE TARGET LIES WITHIN SA-2 MISSILE RANGE (17.5 NM) OF IDENTIFIED SAM SITES. AAA ACTIVITY HAS BEEN IDENTIFIED WITHIN 3 NM. HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

PREPARED BY DEFENSE INTELLIGENCE AGENCY

25X1

X-B101

**SECRET**

25X1

**SECRET**

R-218/66  
7 AUGUST 1967

BA DON PETROLEUM PRODUCTS STORAGE PARTLY UNDERGROUND WEST

25X1

XE504640  
**UTM COORDINATES**

1745N 10625E  
**GEOGRAPHIC COORDINATES**

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE LIES 0.3 NM NORTH OF ROUTE 110 AND 0.8 NM NW OF BA DON. ON PHOTOGRAPHY OF [REDACTED] THIS SITE CONTAINED 7 BURIED TANKS AND APPROXIMATELY 75 DRUMS. PHOTOGRAPHY OF [REDACTED] REVEALS 2 BURIED TANKS, 4 TANKS UNCOVERED, AND 1 EMPTY EXCAVATION. ESTIMATED CAPACITY IS NOW 72 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

ONE SAM SITE HAS BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET; THERE ARE NO ADDITIONAL SITES WITHIN A 30-NM RADIUS. ACTIVE LIGHT AND MEDIUM AAA SITES HAVE BEEN IDENTIFIED IN THE BA DON AREA. MODERATE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

25X1

PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-B111

**SECRET**

25X1  
**SECRET**

TIEN NONG PETROLEUM PRODUCTS STORAGE

25X1

XJ625149  
**UTM COORDINATES**

2055N 10633E  
**GEOGRAPHIC COORDINATES**

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE LIES ON THE SOUTH BANK OF THE SONG VAN DUONG (RIVER), 0.5 NM NNW OF TIEN NONG, AND 8 NM NW OF HAI PHONG. IT CONSISTS OF 36 TANKS IN 14 BUNKERS AND HAS AN ESTIMATED CAPACITY OF 432 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

THIRTY SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 15 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. ACTIVE HEAVY AND MEDIUM AAA SITES HAVE BEEN IDENTIFIED WITHIN 3 NM OF THE TARGET. MODERATE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

25X1

PREPARED BY DEFENSE INTELLIGENCE AGENCY

X-B139

**SECRET**

**SECRET**

HA GIA PETROLEUM

WJ865603

25X1

**UTM COORDINATES**

2120N 10550E

**GEOGRAPHIC COORDINATES**

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE IS 2.2 NM NW OF HA GIA. IT CONTAINS 36 LARGE SEPARATELY BUNKERED TANKS AND 3 MEDIUM TANKS DISPERSED AMONG SMALL HILLS. IT HAS AN ESTIMATED CAPACITY OF 936 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

TWENTY-SIX SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 38 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. IDENTIFIED AAA ACTIVITY WITHIN 3 NM OF THE TARGET INCLUDES 6 SITES CONSISTING OF 19 OCCUPIED 37MM/57MM REVETMENTS AND 3 OCCUPIED 85MM/100MM REVETMENTS. IN ADDITION, THERE IS 1 UNOCCUPIED SITE IN THE AREA. SPARSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

25X1

PREPARED BY DEFENSE INTELLIGENCE AGENCY

X-B165

**SECRET**

25X1

**SECRET**

R-218/67  
7 AUGUST 1967

KEP PETROLEUM PRODUCTS STORAGE

XJ338672  
**UTM COORDINATES**

212415N 1061730E  
**GEOGRAPHIC COORDINATES**

PRE-STRIKE TARGET DESCRIPTION

THIS FENCED STORAGE SITE LIES 1.5 NM NE OF KEP AIRFIELD AND 0.5 NM EAST OF KEP RAIL YARD. IT CONTAINS 2 PARTLY UNDERGROUND EARTH-BUNKERED TANKS, [REDACTED] WITH AN ESTIMATED CAPACITY OF 500 MT. THE SITE IS ROAD SERVED.

25X1

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION. IT MAY POSSIBLY PROVIDE RESERVE STORAGE IN SUPPORT OF KEP AIRFIELD.

NINETEEN SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 23 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. HEAVY AND MEDIUM AAA SITES HAVE BEEN IDENTIFIED IN THE KEP AREA. MODERATE TO INTENSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 1 MONTH. NORTH VIETNAM IS NOT KNOWN TO BE MANUFACTURING TANK COMPONENTS, ALTHOUGH PREFABRICATED TANKS OF SOVIET DESIGN CAN BE INSTALLED IN A PREPARED SITE IN ABOUT 1 WEEK. IT IS UNLIKELY THAT EITHER THE SOVIETS OR THE COMMUNIST CHINESE COULD REPLACE ALL NECESSARY ELEMENTS IN LESS THAN 4 WEEKS.

25X1

PREPARED BY DEFENSE INTELLIGENCE AGENCY  
X-B193

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R-218/67  
7 AUGUST 1967

DONG SANG PE

25X1

WJ457374  
**UTM COORDINATES**

210820N 1052625E  
**GEOGRAPHIC COORDINATES**

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE IS 2.2 NM SW OF DONG SANG AND 2.7 NM WEST OF THE RED RIVER. IT CONSISTS OF 9 BUNKERED TANKS AND 1 TANK IN AN OPEN EXCAVATION WITH AN ESTIMATED CAPACITY OF 120 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

TWENTY-SIX SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 15 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. HEAVY AND MEDIUM AAA SITES HAVE BEEN IDENTIFIED IN THE IMMEDIATE AREA. MODERATE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

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X-B195

**SECRET**

25X1

SECRET

LAP TRI PE

25X1

WJ796546  
**UTM COORDINATES**

211716N 1054609E  
**GEOGRAPHIC COORDINATES**

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE LIES 1.3 NM NE OF LAP TRI AND APPROXIMATELY 5 NM NW OF PHUC YEN. IT CONTAINS 15 EMPTY EXCAVATIONS AND 39 LARGE TANKS, INDIVIDUALLY BUNKERED AND DISPERSED AMONG LOW HILLS, WITH AN ESTIMATED CAPACITY OF 975 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

TWENTY-EIGHT SAM SITES HAVE BEEN IDENTIFIED WITH SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 45 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. MEDIUM AND HEAVY AAA SITES HAVE BEEN IDENTIFIED WITHIN 3 NM. SPARSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

25X1

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X-B197

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R-218,67  
7 AUGUST 1967

25X1

LONG DAI PI

XE737163  
**UTM COORDINATES**

171937N 1063710E  
**GEOGRAPHIC COORDINATES**

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE IS 0.2 NM WSW OF LONG DAI, ON THE NORTH BANK OF THE DAI GIANG (RIVER). IT CONSISTS OF 2 EXCAVATIONS CONTAINING 6 LARGE EXPOSED TANKS AND 3 PARTIALLY BURIED LARGE TANKS. THE SITE HAS AN ESTIMATED CAPACITY OF 225 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

NO SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET; HOWEVER, 3 SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. MEDIUM AND LIGHT AAA SITES HAVE BEEN IDENTIFIED IN THE TARGET AREA. SPARSE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

25X1

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B-199

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**SECRET**

LUC NONG PETROLEUM PRODUCTS STORAGE

25X1

XJ638149  
**UTM COORDINATES**

2055N 10634E  
**GEOGRAPHIC COORDINATES**

PRE-STRIKE TARGET DESCRIPTION

THIS STORAGE SITE LIES ON THE SOUTH BANK OF THE SONG VAN DUONG (RIVER), 0.6 NM SOUTH OF LUC NONG, AND 7.7 NM NW OF HAI PHONG. IT CONSISTS OF 60 BUNKERED TANKS IN 6 ROWS. ESTIMATED CAPACITY IS 720 MT.

THIS AREA IS PART OF THE DISPERSED STORAGE SYSTEM UTILIZED FOR STRATEGIC RESERVES AND/OR LOCAL CONSUMPTION.

TWENTY-EIGHT SAM SITES HAVE BEEN IDENTIFIED WITHIN SA-2 MISSILE RANGE (17.5 NM) OF THE TARGET, AND 16 ADDITIONAL SITES HAVE BEEN IDENTIFIED WITHIN AN 18 - 30 NM RADIUS. MEDIUM AND HEAVY AAA SITES HAVE BEEN IDENTIFIED WITHIN 3 NM. MODERATE HMG AND SMALL ARMS FIRE IS ANTICIPATED AGAINST AIRCRAFT.

RESTORATION OF THIS TARGET TO FULL, PRE-STRIKE CAPABILITY WOULD REQUIRE APPROXIMATELY 2 - 3 WEEKS WITH MATERIALS AT THE SITE. NORTH VIETNAM IS PRESENTLY FABRICATING SMALL HORIZONTAL TANKS, BUT MUST IMPORT THE VARIOUS COMPONENT PARTS. RELIANCE ON IMPORTED MATERIALS IS EXPECTED TO CONTINUE INDEFINITELY.

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**ANNEX II**

25X1

	<u>Installation Name</u>	<u>Capacity</u>	
		<u>MT Water</u>	<u>MT POL</u>
	Viet Tri Petroleum Products Storage	25	21
	Phuc Yen Airfield POL Storage Area	4,200	3,530
	Hia Gia Petroleum Products Storage SSW UG	9,188	7,718
	Ia Noi Petroleum Products Storage Thanh Am	600	504
	Nguyen Khe Petroleum Products Storage	5,925	4,977
	Bac Giang Petroleum Products Storage	1,900	1,596
	Nam Dinh Petroleum Products Storage	13,120	11,021
	Hai Phong Petroleum Products Storage	48,348	40,612
	Duong Nham Petroleum Products Storage	--	--
	Do Son Petroleum Products Storage	--	--
	Phu Van POL Storage	--	--
	Vinh Petroleum Products Storage	1,600	1,344
	Phu Qui Petroleum Products Storage	9,000	7,560
	Ia Noi/Gia Lam Airfield POL Storage Area	850	714
	La Danh Petroleum Products Storage PUG	2,359	1,982
	Van Lung Petroleum Products Storage UG	352	295
	Van Lung Petroleum Products Storage West UG	84	71
	Hoang Mai POL Storage Area	300	252
	Ia Noi Petroleum Products Thi Cam	468	393
	Bai Thuong Petroleum Products Storage UG Southeast	555	466
	Son La Petroleum Products Storage	384	323
	Thuong Thon Petroleum Products Storage UG	--	--
	Ngoc Son Petroleum Products Storage PUG	348	292
	Thai Lai Petroleum Products Storage	120	101
	Yen Ilau Petroleum Products Storage PUG	192	161
	Thanh Lang Petroleum Products Storage PUG	1,044	877
	Ia Noi Petroleum Products Storage UG Thanh Liet (Area 1)	516	433
	Ia Noi Petroleum Products Storage UG Thanh Liet (Area 2)	120	101
	Bang So Petroleum Products Storage PUG	234	197
	Son Chau Petroleum Products Storage PUG	--	--
	Can Thon Petroleum Products Storage	3,100	2,604
	Ia Noi Petroleum Products Storage Duc Noi (Area 1)	1,108	931
	Ia Noi Petroleum Products Storage Duc Noi (Area 2)	849	713
	Ia Noi Petroleum Products Storage Duc Noi (Area 3)	300	252
	Ia Noi Petroleum Products Storage Duc Noi (Area 4)	132	111

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## ANNEX II (Continued)

25X1

	Installation Name	Capacity	
		MT Water	MT POL
	Cu Van Petroleum Products Storage	850	714
	Cu Van Petroleum Products Storage East UG	1,300	1,092
	Dao Quan Petroleum Products Storage East	444	373
	Dao Quan Petroleum Products Storage West	360	302
	Nam Dinh Petroleum Products Storage PUG	300	252
	Thai Nguyen Petroleum Products Storage PUG South	1,320	1,109
	Phuc Yen Airfield POL Storage Area 1	300	252
	Phuc Yen Airfield POL Storage Area 2	750	630
	Xom Duong Quan Petroleum Products Storage UG East	72	60
	Xom Duong Quan Petroleum Products Storage UG	43	36
	Nui Tap Tinh POL Storage Area	26.6	22.3
	Sac Le POL Storage Area	168	141
	Phu Dong POL Storage Area	420	352
	Thuan Le POL Storage Area	273	229
	Phuc Loc Petroleum Products Storage	156	131
	Thanh Hoa POL Storage Area	118	99
	Ba Don Petroleum Products Storage	84	71
	Phuc Loi Petroleum Products Storage Navy	300	252
	Tho Trang Petroleum Products Storage	250	210
	Ninh Giang Petroleum Products Storage	324	272
	Dong Chau Petroleum Products Storage	612	514
	Kep Ha Petroleum Products Storage	96	81
	Tien Hoi Petroleum Products Storage	468	393
	Dong Mai Petroleum Products Storage	276	232
	Xom Lang POL Storage	312	262
	Van Hoa POL Storage	144	121
	Phu Lo Petroleum Products Storage NNE UG	228	192
	Jaune Island POL Storage	48	40
	Co Nhue Vien POL Storage	312	262
	Quang Suoi Petroleum Products Storage	--	--
	Trung Phu Petroleum Products Storage	184	155
	Gia Hoa Petroleum Products Storage PUG	132	111
	Bai Chay Petroleum Products Storage	53	45
	Vinh Petroleum Products Storage Yen Thinh	132	111
	Ba Don Petroleum Products Storage PUG West	72	61
	Bac Ninh Petroleum Products Storage	204	169
	Vinh Petroleum Products Storage PUG Xuan Yen	70	59

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## ANNEX II (Continued)

25X1

Installation Name	Capacity	
	MT Water	MT POL
Tri Binh Petroleum Products Storage	48	40
Xuyen Duong Petroleum Products Storage	--	--
Cau Cong Petroleum Products Storage	384	323
Tung Tu Petroleum Products Storage UG	375	315
Don Son Petroleum Products Storage	744	625
Quy Khe Petroleum Products Storage	1,344	1,129
Tran Xa Petroleum Products Storage	1,250	1,050
Than Hoa Petroleum Products Storage	84	71
Tram Du Petroleum Products Storage	1,050	882
Luc Nong Petroleum Products Storage	720	605
Thai Nguyen Petroleum Products Storage	99	83
Tien Nong Petroleum Products Storage	432	363
Vinh Petroleum Products Storage PUG Ben Thuy	168	141
Chi Linh Petroleum Products Storage	1,728	1,452
Vinh Petroleum Products Storage PUG Yen Dai	72	60
Hoang Pha Petroleum Products Storage	240	202
Kien An POL Storage	288	242
Phu Thi Petroleum Products Storage	360	302
Phuc Yen Petroleum Products Storage	72	60
Vinh Petroleum Products Storage North UG	96	81
Mach Trang Petroleum Products Storage	112	94
Tram Bac Petroleum Products Storage	1,275	1,071
Nam Lo Petroleum Products Storage	1,000	840
Ha Noi Petroleum Products Storage Duc Noi (Area 5)	261	219
Hai Gia Petroleum Products Storage NW	936	786
Phu Xa Petroleum Products Storage	200	168
Hoa Loan Petroleum Products Storage	108	91
Tu Hoang Petroleum Products Storage	175	148
Tay Tuu Petroleum Products Storage East	325	273
Nguyen Khe Petroleum Products Storage	36	30
Cap Dien Petroleum Products Storage	216	181
Vinh Petroleum Products Storage PUG North No 2	375	315
Xom Thap Petroleum Products Storage	180	151
Vinh Petroleum Products Storage PUG North No 3	54	45
Cu Hap Petroleum Products Storage	100	84
Xuan Mai Petroleum Products Storage	750	630
Dong Xuan Petroleum Products Storage	504	423
Vinh Petroleum Products Storage SE PUG	147	124

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ANNEX II (Continued)

25X1 BE No.	Installation Name	Capacity	
		MT Water	MT POL
	Kep Petroleum Products Storage	500	420
	Dong Sang Petroleum Products Storage	120	109
	Lap Tri Petroleum Products Storage	975	819
	Long Dai Petroleum Products Storage	225	189
	Luc Nong Petroleum Products Storage	720	605



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GIAP NHAT POL TRANSSHIPMENT AREA	1737 N 10622	E D55
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CU VAN PETROLEUM PRODUCTS STORAGE EAST UG	2138	N 10544	E B45, X-B45
LA DANH PETROLEUM PRODUCTS STORAGE PUG	2139	N 10550	E B1, X-B1
QUY KHE PETROLEUM PRODUCTS STORAGE	2100	N 10638	E B127, X-B127
DUONG NHAM PETROLEUM PRODUCTS STORAGE	2101	N 10630	E A17, X-A17
DON SON PETROLEUM PRODUCTS STORAGE	2102	N 10636	E B125, X-B125
UONG BI POWERPLANT (PETROLEUM PROD STOR)	2102	N 10647	E D37
CAP DIEN PETROLEUM PRODUCTS STORAGE	2103	N 10618	E B177, X-B177
TRAN XA PETROLEUM PRODUCTS STORAGE	2103	N 10619	E B129, X-B129
NUI TAP TINH POL STORAGE AREA	2103	N 10648	E B63, X-B63
CHI LINH PETROLEUM PRODUCTS STORAGE	2104	N 10619	E B143, X-B143
DONG MAI PETROLEUM PRODUCTS STORAGE	2104	N 10629	E B09, X-B09
BAC NINH PETROLEUM PRODUCTS STORAGE	2109	N 10604	E B113, X-B113
HOANG MAI POL STORAGE AREA	2114	N 10606	E B7, X-B7
BAC GIANG PETROLEUM PRODUCTS STORAGE	2116	N 10611	E A11, X-A11
TRUNG PHU PETROLEUM PRODUCTS STORAGE	2122	N 10619	E B103, X-B103
CAN THON PETROLEUM PRODUCTS STORAGE	2123	N 10618	E B33, X-B33

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KEP HA PETROLEUM PRODUCTS STORAGE	2123	N 10639	E B85, Y-B85
KEP PETROLEUM PRODUCTS STORAGE	212415N	1061730E	B193, X-B193
DAO QUAN PETROLEUM PRODUCTS STORAGE WEST	2125	N 10611	E B49, X-B49
DAO QUAN PETROLEUM PRODUCTS STORAGE EAST	2126	N 10612	E B47, X-B47
POL BARGE	2151	N 10644	E D21
JAUNE ISLAND POL STORAGE	2102	N 10722	E B97, X-B97
VAN HUA POL STORAGE	2112	N 10734	E B93, X-B93

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